

Semi-Annual Environmental Monitoring Report

Project number: 49107-004

Period: July – December 2019
Submission Date: February 2020

IND: Tamil Nadu Urban Flagship Investment Program (Tranche 1)

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SEMI – ANNUAL ENVIRONMENTAL MONITORING REPORT

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Program (TNUFIP)

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TAMIL NADU URBAN FLAGSHIP INVESTMENT PROGRAM – TRANCHE-1

SEMI-ANNUAL ENVIRONMENTAL MONITORING REPORT (SEMR)

1. INTRODUCTION

- Overall project description and objectives

The Tamil Nadu Urban Flagship Investment Program (TNUFIP) will develop priority water supply, sewerage, and drainage infrastructure in at least 10 cities in strategic industrial corridors in Tamil Nadu. It will (i) support innovative pilot projects, including India's first solar-powered sewage treatment plant (STP) to offset greenhouse gas emissions and enhance operational efficiency; (ii) strengthen urban governance; and (iii) build capacity of state and local institutions to enhance urban service delivery, environmental sustainability, and climate resilience.

TNUFIP is aligned with the following impact: (i) universal access to basic water and sanitation services achieved, (ii) world-class cities and industrial corridors across the State developed,¹ and (iii) water security and reducing vulnerability to climate change in urban areas and enhancing share of renewable energy achieved.² The investment program will have the following outcome: livability and climate resilience in at least 10 cities in priority industrial corridors enhanced.³

TNUFIP is implemented in Multitranche financing facility (MFF) and comprises three tranches to be implemented over a period of 8 years starting 2018 and will be funded by Asian Development Bank (ADB). Each Tranche will constitute a project loan.

Tranche 1 is representative of MFF investments and will support subprojects in 6 cities (Chennai, Coimbatore, Rajapalayam, Tiruchirappalli, Tirunelveli, and Vellore). Outputs of tranche 1 include:

- (i) Output 1: Climate-resilient sewage collection and treatment, and drainage systems developed in 6 cities.
- (ii) Output 2: Water supply systems in 1 city improved with smart features.⁴
- (iii) Output 3: Institutional capacity, public awareness, and urban governance strengthened.

- Environmental category as per ADB Safeguard Policy Statement, 2009

ADB requires the consideration of environmental issues in all aspects of ADB's operations, and the requirements for environmental assessment are described in ADB SPS, 2009. This states that ADB requires environmental assessment of all ADB investments. The nature of the environmental assessment required for a project depends on the significance of its environmental impacts, which are related to the type and location of the project; the sensitivity, scale, nature, and magnitude of its potential impacts; and the availability of cost-effective mitigation measures.

The sub-projects implemented under TNUFIP Tranche 1 are categorized as Category B.

¹ World-class cities are defined by Tamil Nadu Vision 2023 as existing towns whose infrastructure is to be upgraded significantly including provision of access to 24x7 water supply, efficient mass transit systems while making them open-defecation free and garbage free. (Government of Tamil Nadu. 2012. *Tamil Nadu Vision 2023*. Chennai).

² Government of Tamil Nadu. 2015. *Tamil Nadu Sustainable Water Security Mission*. Chennai; and Government of Tamil Nadu. 2014. *State Action Plan on Climate Change*. Chennai.

³ Government of India, Ministry of Urban Development. 2015. *Smart City Mission Statement and Guidelines*. Delhi.

⁴ For Project 1, smart water features include online automatic pressure sensors and flow meters, 100% household metered connections using DMA-based distribution management, and energy efficient motors for pumps.

- Environmental category of each subproject as per national laws and regulations

The Government of India EIA Notification of 2006, sets out the requirement for Environmental Assessment in India. This states that Environmental Clearance is required for specified activities/projects, and this must be obtained before any construction work or land preparation may commence. Projects are categorized as A or B depending on the scale of the project and the nature of its impacts.

None of the components of this underground sewerage system subproject falls under the ambit of the EIA Notification 2006, and, therefore EIA Study or Environmental Clearance is not required for the subproject.

- Implementation Arrangement:

The Municipal Administration and Water Supply Department (MAWS) through the Tamil Nadu Urban Infrastructure Financial Services, Ltd (TNUIFSL) is the executing agency, and the urban local bodies (ULBs), or in the case of Chennai the Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB), are the implementing agencies. The Tamil Nadu Water Supply and Drainage Board (TWAD) is providing implementation support to two urban local bodies (ULBs) namely, Coimbatore and Rajapalayam.

- Project Safeguards Team

Name	Designation/Office	Email Address	Contact Number
1. PMU			
Ms.Chitra Rajesh	Environmental and Social Safeguard Manager, TNUIFSL	chitra.tnudf2@gmail.com chitra@tnuifsl.com	+91 94447 48398
2. PIUs			
Tirunelveli			
Mr. Arul	Assistant Engineer, Tirunelveli Municipal Corporation		
Trichy			
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Vellore			
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Coimbatore			
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3. Consultants			
Mr. Nishad Narayanan	Environmental Safeguard Assistant, M/s. SAI Consulting Engineers Pvt Ltd, CMSC Tirunelveli UGSS Ph-II and Tirunelveli UGSS Ph-III	nnarayanan@systra.com	7025963459
Mr. Ranjan Kumar Mallick	Environmental Safeguard Assistance, M/s. Shah Tech Consultants (STC), CMSC, Trichy UGSS	mallickdevelopment@gmail.com	9438200113
Ms. Molly George	Environmental Specialist, M/s. Shah Tech Consultants (STC), CMSC, Vellore UGSS	molly_george2003@yahoo.com	9847012833
Mr. Srinath Anekal	Environmental Specialist, Ms. NJS Voyants Consultants CMSC, CMWSSB WSIS & CMWSSB UGSS	njsvspl.cmwssb@gmail.com	97409 78471

- Overall project and sub-project progress and status

Tranche 1 supports the development of priority water supply and/or sewerage facilities in six towns (Chennai, Coimbatore, Rajapalayam, Tiruchirappalli, Tirunelveli, Vellore). There are a total of eight six subprojects (7 sewerage, 1 water supply).

Out of the total 14 Water supply and sewerage packages, 13 packages have been awarded. One STP package (Rajapalayam UGSS) is under procurement. Work has been commenced in the awarded packages except in two packages for Trichy STP and Coimbatore STP where design is under finalization. Solar Component under Coimbatore UGSS is in Feasibility study stage.

- Description of subprojects (package-wise) and status of implementation (preliminary, detailed design, on-going construction, completed, and/or O&M stage)

Package Number	Components/List of Works	Contract Status (specify if under bidding or contract awarded)	Status Implementation of (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M)	% Physical Progress
TNUFIP/TEVL/01	Providing sewerage collection system in Zone-1, 2 & 3 for UGSS in Tirunelveli Corporation	Contract awarded	On-going Construction	32%
TNUFIP/TEVL-02	Providing sewerage collection system in Zone - 4, 5, 6, PCB, PM and construction of Sewage Treatment Plant of capacity 27 MLD	Contract awarded	On-going Construction	3%

TNUFIP/TIRP/01	Providing sewerage collection system in the extended areas of Corporation for UGSS in Trichy Corporation under Package – 1	Contract awarded	On-going Construction	14 %
TNUFIP/TIRP/02	Providing sewerage collection system in left out areas of erstwhile Corporation for UGSS in Trichy Corporation under Package – 2	Contract awarded	On-going Construction	34%
TNUFIP/TIRP/03	Construction of Sewage Treatment Plant of capacity 37 MLD on DBO basis for UGSS in Trichy Corporation under Package-3	Contract awarded	Design stage	-
TNUFIP/VEL/01	Providing sewerage collection system in Zone 3,4 &5 for UGSS in Vellore Corporation under Package – 1	Contract awarded	On-going Construction	10%
TNUFIP/VEL/02	Providing sewerage collection system in Zone 6,7, PCB & PM for UGSS in Vellore Corporation under Package – 2	Contract awarded	On-going Construction	9%
TNUFIP/VEL/03	Construction of Sewage Treatment Plant of capacity 50 MLD on DBO basis for UGSS in Vellore Corporation under Package-3	Contract awarded	Preliminary works	-
TNUFIP/CBE/01	Providing UGSS to Kurichi and Kuniamuthur Area Wards 87 to 100 of Coimbatore Corporation-Phase-II	Contract awarded	On-going Construction	38%
TNUFIP/CBE/02	Construction of Sewage Treatment Plant of capacity 30.53 MLD on DBO basis for UGSS in Coimbatore Corporation under Package 2	Contract awarded	Design stage	-
TNUFIP/CBE/03	Solar	Feasibility study and preparation of bid document in progress.	-	-
TNUFIP/RPM/01	Providing sewerage collection system for UGSS in Rajapalayam Municipality under Package – 1	Contract awarded	On-going Construction	34%

TNUFIP/RPM/02	Construction of Sewage Treatment Plant of capacity 21.85 MLD – 2 modules on DBO basis for UGSS in Rajapalayam Municipality under Package 2	Work order to be issued	-	-
TNUFIP/CMW SSB/01	Providing Water Supply Improvement Scheme for the 4 added areas of Chennai city	Contract awarded	On-going Construction	27%
TNUFIP/CMW SSB/02	Providing Sewerage Collection System in 4 added areas of Chennai city for UGSS in Greater Chennai Corporation	Contract awarded	On-going Construction	3%

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

Package No.	Subproject Name	Statutory Environmental Requirements	Status of Compliance	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish
TNUFIP/TEVL/01	Providing sewerage collection system in Zone-1,2 & 3 for UGSS in Tirunelveli Corporation	-	-	-	-	
TNUFIP/TEVL-02	Providing sewerage collection system in Zone - 4, 5, 6, PCB, PM and construction of Sewage Treatment Plant of capacity 27 MLD	TNPCB Consent to operate existing STP at Ramayyanpatti	Applied to	-	Being followed up.	
		TNPCB Consent to establish new STP at Ramayyanpatti	To be applied.	-	-	

TNUFIP/ TIRP/01	Providing sewerage collection system in the extended areas of Corporation for UGSS in Trichy Corporation under Package – 1	ASI permission for works within 300m of Erumbeeswarar Temple.	Application was submitted by TCMC. Deputy Superintendent Archaeology, Chennai inspected the site on 17.07.2019. Revised alignment has been submitted by Trichy Corporation on 20.12.2019 excluding the protected area, as per the communication received from ASI. Permission awaited.	-	Being followed up.	
TNUFIP/ TIRP/02	Providing sewerage collection system in left out areas of erstwhile Corporation for UGSS in Trichy Corporation under Package – 2	-	-	-	-	
TNUFIP/ TIRP/03	Construction of Sewage Treatment Plant of capacity 37 MLD on DBO basis for UGSS in Trichy Corporation under Package-3	TNPCB Consent establish new STP at Keelakalkandhar kottai.	Application submitted on 27.11.19 and in progress.		Being followed up.	
		PWD permission	Applied and is in progress.		Being followed up.	
TNUFIP/ VEL/01	Providing sewerage collection system in Zone 3,4 &5 for UGSS in Vellore Corporation under Package – 1					

TNUFIP/ VEL/02	Providing sewerage collection system in Zone 6,7, PCB & PM for UGSS in Vellore Corporation under Package – 2	ASI permission for works falling within 300m of Vellore Fort.	Application submitted to ASI, Chennai was forwarded to ASI, New Delhi on 26.03.19. Detailed proposal has been resubmitted to NMA, Chennai on 01.11.19 as per the communication received from Superintending Archaeologist, Chennai. Permission awaited.		Being followed up.	
TNUFIP/ VEL/03	Construction of Sewage Treatment Plant of capacity 50 MLD on DBO basis for UGSS in Vellore Corporation under Package-3	Consent to establish STP from TNPCB.	Obtained.	31.02.20 24	-	
		PWD permission for disposal of treated effluent into Pandiyan Channel	Applied.	-	Being followed up.	
TNUFIP/ CBE/01	Providing UGSS to Kurichi and Kuniyamuthur Area Wards 87 to 100 of Coimbatore Corporation-Phase-II	-	-	-	-	
TNUFIP/ CBE/02	Construction of Sewage Treatment Plant of capacity 30.53 MLD on DBO basis for UGSS in Coimbatore Corporation under Package 2	Consent to establish STP from TNPCB.	Application process is in progress.			
TNUFIP/ RPM/01	Providing sewerage collection system for UGSS in	-	-	-	-	

	Rajapalayam Municipality under Package – 1					
TNUFIP/CMWSS B/01	Providing Water Supply Improvement Scheme for the 4 added areas of Chennai city	CRZ Clearance for section of distribution system in Uthandi	Application submitted and proposal was reviewed by DCZMA on 30.12.2019. Permission awaited.	-	-	
TNUFIP/CMWSS B/02	Providing Sewerage Collection System in 4 added areas of Chennai city for UGSS in Greater Chennai Corporation	-	-	-	-	

3. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT PLAN (REFER TO EMP TABLES IN APPROVED IEE/S)

- Package-wise IEE Documentation Status

Package Number	Final IEE based on Detailed Design				Site-specific EMP (or Construction EMP) approved by Project Director? (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 Contract or/s (Yes/No)		
TNUFIP/TEV L/01	Draft IEE disclosed in the Tirunelveli Corporation and PMU websites.				SEMP submitted by the contractor.	IEE is under finalization by CMSC/ PIU.
TNUFIP/TEV L-02	Draft IEE disclosed in the Tirunelveli Corporation and PMU websites.				SEMP submitted by the contractor.	Some lifting stations and Pumping Station sites (PS 6, LS 18 and LS 22) are being finalised in consultation with local public. IEE is under updation based on these sites.

TNUFIP/TIR P/01	Draft IEE firmed up with respect to Package 1 and 2 details /scope.	SEMP submitted by the contractor.	Design of STP under Package 3 is finalised. Final IEE for the sub-project will be updated incorporating STP design.
TNUFIP/TIR P/02	Draft IEE is disclosed in the Trichy Corporation and PMU websites.	SEMP submitted by the contractor.	
TNUFIP/TIR P/03		SEMP submitted by the contractor.	
TNUFIP/VEL/01	Draft IEE updated with respect to Package 1 and 2 details /scope.	SEMP submitted by the contractor.	Final IEE for the sub-project updated with STP design has been shared with PMU and is under review.
TNUFIP/VEL/02	Draft IEE is disclosed in the Vellore Corporation and PMU websites.	SEMP submitted by the contractor.	
TNUFIP/VEL/03		SEMP submitted by the contractor.	
TNUFIP/CBE /01	Not yet due. STP design works are in progress.	SEMP submitted by the contractor.	Final IEE will be submitted incorporating STP design.
TNUFIP/CBE /02	Draft IEE is disclosed in the TWADB and Coimbatore Corporation websites.	SEMP is under preparation by the contractor.	
TNUFIP/RPM /01	Not yet due. Package 2 - STP is under procurement. Draft IEE is disclosed in the TWADB, Rajapalayam Municipality and PMU websites.	SEMP submitted by the contractor.	Final IEE will be submitted incorporating STP design.
TNUFIP/CM WSSB/01	Draft IEE is disclosed in the CMWSSB and PMU websites.	SEMP submitted by the contractor.	Final IEE prepared by CMSC/PIU has been submitted to PPTA for review.
TNUFIP/CM WSSB/02	Draft IEE is disclosed in the CMWSSB and PMU websites.	SEMP submitted by the contractor.	Sites are being finalised (2 SPS) in consultation with the local public. IEE report is being finalised based on these sites.

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

Package Name	Contractor	Nodal Person	Email Address	Contact Number
TNUFIP/TEVL/01	M/s. L&T Construction	Mr. S. Narayanan	nryns@Intecc.com	9940888170
TNUFIP/TEVL-02	M/s. Simplex Infrastructure	Mr. Srikata Sahoo	srikantakumar01@gmail.com	70080 50653

TNUFIP/TIRP/01	M/s. Subaya Constructions Company Pvt Ltd	Mr. V.Subramanian	sccltirchydks@gmail.com	9443847479
TNUFIP/TIRP/02	M/s. Anchor Ceramic Company Pvt Ltd.	Mr. K. Ramesh	rameshrsk1960@gmail.com	9442519162
TNUFIP/TIRP/03	M/s. Eco Protection Engineering Pvt Ltd.	Mr. Shunmugam. K	kshunmugam09@yhao.com	9600967591
TNUFIP/VEL/01	M/s. Subaya Constructions Company Pvt Ltd	Mr. Ajas Rahim	ajrasahimajas@gmail.com	8124922003
TNUFIP/VEL/02	M/s. Subaya Constructions Company Pvt Ltd	Mr. Zahiruddin	mr.zahir95@gmail.com	8838279334
TNUFIP/VEL/03	M/s. P&C Project Pvt. Ltd, Chennai	Mr. E.Yoheeswaran,	eyohee@gmail.com	9842813817
TNUFIP/CBE/01	M/s. L&T Constructions	Mr. A.Mohan Pandi Mr. S.Dinesh	mohanpandia@Intecc.com	8889996569 9944380232
TNUFIP/CBE/02	M/s. L&T Constructions	Mr. J.Dennis Mr. S.Dinesh		8940317156 9944380232
TNUFIP/RPM/01	M/s. Eco Protection Engineers Pvt. Ltd., Chennai	Mr. S.Dhandabani Mr. S.Karmeganer Mr. K.Shunmugam Mr. M.Vijayarajan	dhandapanisd6@gmail.com ecoamc@gmail.com kshunmugam09@yahoo.com vijayarajan2705@gmail.com	6383207259 8754048658 9600967591 9952552063
TNUFIP/CMW SSB/01	M/s. Sattva Engineering – Sriram EPC Jv.	Mr. Ananda Raj Mr. Naina Mohammed Mr. Gomathi Shankar Mr. Muthu Kumar		82480 12946 72990 87886 80725 65657 81484 38184
TNUFIP/CMW SSB/02	M/s Subaya Constructions company Pvt Ltd	Dr. S. Tamilselvan Mr. Selvakumar	director.lifeshelllabs@gmail.com	99406 16024 88834 08734

- **Summary of Environmental Monitoring Activities (for the Reporting Period)**

Impacts (List from IEE)	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

Construction disturbances, nuisances, public and worker safety, public grievance	Proper implementation of EMP to mitigate the impacts - Dust control, noise control, traffic management, safety measures, use of PPEs, labour facilities, labour welfare measures, training programs, grievance redressal mechanism, disclosure, advance notice, etc	Implementation of construction stage environmental management plan (EMP) Availability of EHS staff and review of reports Inspection reports Records of Grievance redressal	Visual Observations, interaction with public	All work sites, Labour Camps	Continuou s	Environmental Safeguard Personnel of ULB, CMSC, TWADB, CMWSSB EHS personnel of Contractor
Impact on Ambient air quality – Air Pollution	Strict adherence to the EMP measures	PM10, PM2.5 NO2, SO2, CO	Ambient Air Quality Monitoring by NABL accredited 3 rd Party Lab using standard test methods	Near work sites	Periodical	Accredited Environmental Laboratories
High noise levels	Use appropriate Personnel protective equipment Maintenance of vehicles	Day time and night time noise levels	Monitoring by NABL accredited 3 rd Party Lab	Near work sites	Periodical	Accredited Environmental Laboratories
Water Pollution	During construction, adherence to the EMP measures Minimize construction waste falling into waterbody by proper supervision. Proper Operational	pH, Turbidity, BOD, COD, DO, Total Alkalinity, Hardness, Oil and grease, Cl, F, NO3, TC, FC	Monitoring by NABL accredited 3 rd Party Lab using standard test methods	All work sites	Periodical	Accredited Environmental Laboratories

	control procedure to be followed					
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- **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)	Action and Proposed Additional Measures Required
1	Tirunelveli UGSS Ph-II	Y	Y	Satisfactory	Following measures are proposed by PMU (i) Continuous follow-up with the PIU and CMSC. (ii) Periodical Field visits to the project sites (iii) Periodical training to the contractors by Environmental specialists of PIU and CMSC.
2	Tirunelveli UGSS Ph-III	Y	Y	Satisfactory	
3	Trichy UGSS Ph-II	Y	Y	Satisfactory	
4	Vellore UGSS Ph-II	Y	Y	Satisfactory	
5	Coimbatore UGSS	Y	Y	Satisfactory	
6	Rajapalayam UGSS	Y	Y	Satisfactory	
7	CMWSSB WSIS	Y	Y	Satisfactory	
8	CMWSSB UGSS	Y	Y	Satisfactory	

4. APPROACH AND METHODOLOGY FOR ENVIRONMENTAL MONITORING OF THE PROJECT

Overall safeguards monitoring in all the sub-projects is done by PMU. Sub-project monitoring is done by the PIU/ CMSC.

In all the CMSCs, Environmental Safeguards Assistant (ESA) are in place for ensuring compliance to environmental safeguards requirements. CMSCs supervise the compliance to safeguards and submit their reports to PIU.

In Coimbatore UGSS and Rajapalayam UGSS sub-projects with implementation support from TWAD Board, Environmental officers have been designated for carrying out monitoring of compliance, who carry out inspections and submit their observations to PIU.

EHS officials have been appointed by all the contractors who take care of the training, compliance to EHS requirements in project implementation.

Management Measures followed during project implementation.

Most of the works are carried out in the urban area and close to developments. Hence various measures are being taken by the contractors in minimizing the inconvenience caused due to implementation works.

- Barricading is provided to excavations to ensure adequate protection.

- Signage boards are placed for guidance to public.
- For control of dust, sprinkling of water is being carried out by the contractors as and when prone to dust.
- The excavated earth is temporarily stored with cover to prevent dust and any run-off. The surplus earth after back-filling is removed and carted away.
- Raw material like pipes are stored in common storage yard or in temporary sites in proximity to the place of work. These are brought to the work site as and when required.
- Notice is issued to the residents giving information of the proposed work and start date. This enables the residents to plan their activities especially for moving vehicles. Contractors maintain records of issuing notice along with signatures of the residents.
- The contact numbers of the officials concerned are displayed near the work place to enable the public to air their grievance.
- Environmental monitoring is being carried out on a quarterly basis during implementation to monitor the impacts of the project works on the neighbourhood. Monitoring is carried out by accredited environmental laboratories.

No environmental issues like muddy water escaping outside the site boundaries, dust pollution, spillage of chemicals and fuels etc were recorded during the period.

5.MONITORING OF ENVIRONMENTAL IMPACTS ON PROJECT SURROUNDINGS (AMBIENT AIR, WATER QUALITY AND NOISE LEVELS)

The Contractors engaged for implementation of the subprojects have mobilised their EHS personnel required for project implementation. Contractors have conducted environmental quality studies as part of the pre-construction activities as baseline and during construction to monitor the impacts. The ambient air quality, noise levels, and water quality studies were carried out at various locations near the project sites during the reporting period. The monitoring data indicates that the ambient air quality and noise level in the project area is well within the standards prescribed for residential area.

The results of the environmental quality monitoring carried out for each sub-project during the reporting period is presented in the Tables below.

I TIRUNELVELI UGSS PH-II

Environmental Monitoring has been carried out near work sites through M/s. Excellence Laboratory, Madurai.

Ambient Air Quality

Site No.	Date of Testing	Site Location	Parameters				
			PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NO2 µg/m3	CO mg/m3
1	26.09.2019	Karaiyiruppu	53.2	25.7	9.3	18.7	BDL
		Gandhi Nagar	58	29.5	11.3	22.5	BDL
		Chidamparam	63.7	32.7	13.7	25	BDL
2	30.12.2019	Rail Nagar	50.5	25.7	9.6	18.8	BDL
		Sarojini Street	67.5	33.7	8.8	16.5	BDL
		Sindhu Poondurai	43.7	21.2	10.6	20.5	BDL
Standards			100	60	80	80	4.0

Water Quality

Site No.	Date of Sampling	Site Location	Parameters			
			pH	BOD mg/L	COD mg/L	DO mg/L
Surface Water						
1	17.07.2019	Nainar Kulam	6.9	23	77	1.8
		Thamirabarani River	7.1	<2.0	13	6.7
2	30.12.2019	Nainar Kulam	6.5	<2.0	21	5.3
		Thamirabarani River	7.0	5.7	18	4.9
		Labour Colony	7.7	2.9	24	4.5
Standards	IS 2296 (Class C)		6.6-8.5	3	-	4

Noise Quality

Site No	Date of Testing	Site Location	LA _{eq} (dBA)	
			Day Time	Night Time
1	26.09.2019	Chidambaram Nagar	57.1	55.9
		Near Gandhi Nagar	52.3	50.8
		Karaiyiruppu	53.2	52.3
		Near Labour Camp	59.6	57.3
		Near Main Gate	62.1	59.3
2	30.12.2019	Rail Nagar	76.8	-
		Sendhimangalam	76.2	-
Standards			75	70

II TIRUNELVELI UGSS PH-III

Environmental Monitoring has been carried out on 15.04.2019 at places near work sites through M/s. Excellence Laboratory, Madurai.

Air Quality

Site No.	Date of Testing	Site Location	Parameters				
			PM10 µg/m ³	PM2.5 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
1	17.07.2019	Anbu Nagar	87.2	44.5	12.7	23.3	BDL
		Davidhi Nagar	68.7	35.7	8.4	15.6	BDL
		Kumaresan Nagar	51.2	30.0	10.5	21.1	BDL
		Tholkappiyar Street	76.2	39.2	9.4	18.7	BDL
		Keelanatham	90	49.5	14.1	24.5	BDL
	30.10.2019	Davidhi Nagar	45.8	22.7	7.1	14.5	BDL

		Anbu Nagar	40.3	20.7	8.5	16.7	BDL
		Keelanatham	60.7	31.3	6.3	13.0	BDL
		Tholkappiyar Street	68.3	35	11.3	21.4	BDL
Standards			100	60	80	80	4.0

Water Quality

Site No.	Date of Sampling	Site Location	Parameters			
			pH	BOD mg/L	COD mg/L	DO mg/L
1	17.07.2019	Tholkappiyar Street	6.6	5.4	46	5.1
		Keelanatham	6.7	<2.0	17	6.2
2	30.10.2019	Tholkappiyar Street	6.4	<2.0	8	6.4
		Keelanatham	6.6	<2.0	16	6.3
		Kurichi	6.9	<2.0	35	4.9
		Ramayanpatti	7.1	<2.0	138	5.1
Standards	IS 2296 (Class C)		6.6-8.5	3	-	4

Noise Quality

Site No	Date of Testing	Site Location	LA _{eq} (dBA)	
			Day Time	Night Time
1	17.07.2019	Anbu Nagar	71.8	57.1
		Davidhi Nagar	70.2	55.3
		Kumaresan Nagar	55.5	59.9
		Tholkappiyar Street	66.4	66.0
		Keelanatham	56.7	63.5
2	07.11.2019	Anbu Nagar	64.2	55.4
		Davidhi Nagar	58.3	45.1
		Kumaresan Nagar	63.4	53.7
		Tholkappiyar Street	57.5	60.2
		Keelanatham	58	50.5
Standard			75	70

III TRICHY UGSS PHASE- II

Environmental Monitoring has been carried out through M/s. Life Shell Labs India Pvt Ltd, Chennai Packages 1 & 2.

Ambient Air Quality

Site No.	Date of Testing	Site Location	Parameters				
			PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NO2 µg/m3	CO mg/m3
Package 1	08.08.2019	SPS 01 (10.81291237, 78.72920006)	86.4	14.8	5.8	9.2	BDL
		LS 2A Diamond Layout (10.80654661, 78.71954653)	60.8	12.7	3.8	6.9	BDL
		LS 3A Kamaraj Nagar (10.80769447, 78.73309764)	59.8	11.4	3.2	6.9	BDL
		LS 4A – Amman Nagar (10.79455383, 78.75558863)	60.4	11.8	3.5	6.8	BDL
		Moogambigai nagar (10.78563439, 78.73852836)	67.9	11.8	4.05	8.6	BDL
	27.12.2019	LS 2A Patel Nagar (10.81660284, 78.71423601)	56.2	12.9	4.65	9.3	BDL
		LS 1A Arputhasamy puram (10.82017680, 78.72856219)	53.9	12.1	4.05	7.25	BDL
		LS 4B Amman Nagar (10.79018677, 78.75429933)	63.9	14.2	5.05	9.2	BDL
		LS 3E Mahalakshmi Nagar (10.80278087, 78.76853650)	58.2	11.8	3.8	7.05	BDL
		SPS 2 Ariyamangalam (10.808919, 78.718269)	57.1	13.2	4.05	7.6	BDL
		SPS 4 Rajarajshwari Nagar (10.814289, 78.661325)	52.2	12.4	3.65	7.2	BDL
		Package 2	27.12.2019	Raja Colony (10.80314486, 78.67372820)	65.9	14.6	3.65
Devathanam LS (10.832775, 78.702183)	52.1	8.4		3.25	7.05	BDL	
Siva Nagar Extension (10.81745641, 78.66498554)	55.6	9.05		3.15	6.20	BDL	
Standards			100	60	80	80	4.0

Noise Quality

Site No.	Date of Testing	Site Location	LAeq (dBA)	
			Day Time	Night Time
Package 1	08.08.2019	SPS 01 (10.81291237, 78.72920006)	65.4	58.3
		LS 2A Diamond Layout (10.80654661, 78.71954653)	59.6	52.1
		LS 3A Kamaraj Nagar (10.80769447, 78.73309764)	58.7	50.6
		LS 4A – Amman Nagar (10.79455383, 78.75558863)	56.8	48.2
		Moogambigai nagar (10.78563439, 78.73852836)	61.1	55.6
	27.12.2019	LS 2A Patel Nagar (10.81660284, 78.71423601)	53.8	49.2
		LS 1A Arputhasamy puram (10.82017680, 78.72856219)	56.9	52.7
		LS 4B Amman Nagar (10.79018677, 78.75429933)	52.4	47.3
		LS 3E Mahalakshmi Nagar (10.80278087, 78.76853650)	63.8	55.9
		SPS 2 Ariyamangalam (10.808919, 78.718269)	60.9	57.1
		SPS 4 Rajarajshwari Nagar (10.814289, 78.661325)	55.9	50.6
Package 2		Raja Colony (10.80314486, 78.67372820)	57.2	53.8
		Devathanam LS (10.832775, 78.702183)	56.9	48.6
		Siva Nagar Extension (10.81745641, 78.66498554)	55.4	47.8
Standard			75	70

Water Quality

Site No.	Date of Sampling	Site Location	Parameters			
			pH	BOD mg/L	COD mg/L	DO mg/L
Surface Water						
Package 1	09.08.2019	Moogambigai nagar (10.78876147, 78.74019234)	7.2	10	56	4.6
		VOC Nagar (10.79455378, 78.75558855)	7.08	4.0	22.0	5.1
Standards	IS 2296 (Class C)		6.6-8.5	3	-	4

IV VELLORE UGSS PHASE- II

Environmental Monitoring was carried out through M/s. Life Shell Labs India Pvt Ltd, Chennai for Packages 1 & 2.

Air Quality Monitoring Results

Site No.	Date of Testing	Site Location	Parameters				
			PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NO2 µg/m3	CO mg/m3
Package 1	09.11.2019	SPS-4 - Vasantham Nagar (12.94703004, 79.17079945)	61.4	11.2	3.2	6.55	BDL
		LS 7- Mandavelai Road (12.94082626, 79.15890737)	70.8	12.4	4.05	7.80	BDL
		Vellore Fort Rear Side (12.91737181, 79.12644317)	64.7	11.6	3.9	8.1	BDL
Package 2	09.11.2019	LS 12 Vasantham Nagar (12.91376453, 79.12467618)	62.0	10.9	3.40	7.90	BDL
		DKM College Road (12.89899117, 79.13955373)	64.9	11.8	3.90	8.05	BDL
Package 3	07.08.2019	STP site	11.74	21.48	54.92	26.17	BDL
Standards			100	60	80	80	4.0

Noise Quality Results

Site No.	Date of Testing	Site Location	LAeq (dBA)	
			Day Time	Night Time
Package 1	09.11.2019	SPS-4 - Vasantham Nagar (12.94703004, 79.17079945)	61.8	55.4
		LS 7- Mandavelai Road (12.94082626, 79.15890737)	60.2	53.9
		Vellore Fort Rear Side (12.91737181, 79.12644317)	64.6	58.8
Package 2	09.11.2019	LS 12 Vasantham Nagar (12.91376453, 79.12467618)	62.9	55.3
		DKM College Road (12.89899117, 79.13955373)	59.2	52.4
Package 3	07.08.2019	STP site	60.7	53.1
Standard			75	70

Water Quality

Site No.	Date of Sampling	Site Location	Parameters		
			pH	Turbidity NTU	Total Alkalinity mg/L
Ground Water					
Package 3	31.08.2019	STP site	7.18	BLQ	340
Standards	IS 10500		6.5-8.5	5.0	600

V COIMBATORE UGSS

Environmental Monitoring has been carried out near project sites through Ms. Excellence Laboratory, Tiruppur.

Air Quality Results

Site No.	Date of Testing	Site Location	Parameters				
			PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NO2 µg/m3	CO mg/m3
Package 1	05.08.2019	LIC Colony Street	78.5	37.5	12.3	22.8	BDL
		Kurichi Housing Unit	65	32.5	8.9	17.1	BDL
	03/12/2019	Vellalore Camp (10.965922, 77.01121)	50.5	25.7	7.8	16.3	BDL
		Srinivasa Nagar	56.5	27.5	10.4	20.2	BDL
Standard			100	60	80	80	4.0

Noise Quality Results

Site No.	Date of Sampling	Site Location	LA _{eq} (dBA)	
			Day Time	Night Time
Package 1	05.08.2019	LIC Colony Street	63.4	-
		Kurichi Housing Unit	64.8	-
	03/12/2019	Vellalore Camp	60.7	-
		Srinivasa Nagar	64.4	-
Standards			75	70

Water Quality

Site No.	Date of Sampling	Site Location	Parameters		
			pH	Turbidity NTU	Total Alkalinity mg/L -
Ground Water	12.08.2019	Kurichi Housing Unit	7.8	<0.1	240
Standards	IS 10500		6.5-8.5	5.0	600

VI RAJAPALAYAM UGSS**Ambient Air Quality**

Environmental Monitoring was carried out through M/s. Santhome Enviro Services, Chennai

Site No.	Date of Testing	Site Location	Parameters				
			PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NO2 µg/m3	CO mg/m3
1	15.07.2019	North Andalpuram	89	48	6.5	8.9	BDL
2	22.10.2019	Ponnagaram	78	39	7.4	8.5	BDL
Standards			100	60	80	80	4.0

Noise Quality

Site No.	Date of Sampling	Site Location	LA _{eq} (dBA)	
			Day Time	Night Time
1	16.07.2019	North Andalpuram	76.38	-
2	22.10.2019	Ponnagaram	76.5	-
Standards			75	70

VII CMWSSB WSIS

Environmental Monitoring was carried out through M/s. Chennai Mettex Lav Private Limited, Chennai

Site No.	Date of Testing	Site Location	Parameters				
			PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NO2 µg/m3	CO mg/m3
1	08.07.2019	Madipakkam (12.57256, 80.12463)	9.4	16.4	56.0	24.7	BDL
		Mathur (13.10216, 80.14191)	6.1	17.5	51.3	23.0	BDL
	11.07.2019	Jalladam pettai (12.55361, 80.12060)	8.9	20.0	67.1	29.5	BDL
	12.07.2019	Uthandi (12.52297, 80.14377)	5.0	14.6	46.1	21.3	BDL

2	22.12.2019	Uthandi (N 12°52'40", E 80°14'35")	7.1	18.5	62.0	27.9	BDL
Standard			100	60	80	80	4.0

Noise Quality

Site No.	Date of Sampling	Site Location	LA _{eq} (dBA)	
			Day Time	Night Time
1	08.07.2019	Madipakkam	60.07	54.1
		Mathur	56.0	48.5
		Mathur (Near metro water office)	58.2	50.6
	11.07.2019	Jalladam pettai	67.7	60.2
	12.07.2019	Uthandi	56.2	49.7
2	20.12.2019	Uthandi	63.8	54.1
Standard			75	70

Water Quality

Site No.	Date of Sampling	Site Location	Parameters			
			pH	BOD mg/L	CO D mg/L	DO mg/L
Surface Water						
1	09.07.2019	Madipakkam Lake	7.44	1440	4878	BDL
	12.07.2019	Buckingham Canal	7.67	26	121	5.6
2	20.12.2019	Buckingham Canal	7.33	9	54	5.7
Standards	IS 2296 (Class C)		6.6-8.5	3	-	4
Site No.	Date of Sampling	Site Location	Parameters			
Ground Water			pH	Turbidity NTU	Total Alkalinity mg/L -	
1	08.07.2019	Borewell, Mathur	7.39	2.3	284	
Standards	IS 10500		6.5-8.5	5.0	600	

VIII CWMSSB UGSS

Environmental Monitoring has been carried out through M/s. Life Shell Labs India Pvt Ltd, Chennai.

Site No.	Date of Testing	Site Location	Parameters				
			PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NO2 µg/m3	CO mg/m3
1	14.08.2019	Manapakkam (13.0125548, 80.1675220)	69.6	12.6	4.20	8.65	BDL
		Karapakkam-Chettiyar Agaram (13.0484007, 80.14560549)	62.8	12.2	3.9	8.2	BDL
	16.08.2019	Manali (13.17060247, 80.25900543)	60.4	11.8	3.5	6.8	BDL
		Chinnasekkadu (13.17060247, 80.25900543)	60.4	11.8	3.5	6.8	BDL
		Manapakkam dumping area (13.002397, 80.095632)	69.71	13.04	8.90	12.56	BDL
2	18.11.2019	Manapakkam (13.015153, 80.18166)	63.8	13.4	4.6	8.7	BDL
		Karapakkam – Moovendhar Nagar (13.04650, 80.13650)	64.9	13.2	4.3	9.4	BDL
		Manali (13.172366, 80.254454)	79.6	42.9	3.8	7.6	BDL
		Chinnasekkadu (13.163179, 80.261229)	75.4	39.6	4.0	7.3	BDL
		Manapakkam dumping area (13.002397, 80.095632)	67.9	14.2	7.6	13.1	BDL
Standard			100	60	80	80	4.0

Water Quality:

Site No.	Date of Sampling	Site Location	Parameters			
			pH	BOD mg/L	COD mg/L	DO mg/L
1	14.08.2019	Adayar River (13.01844302, 80.18529757)	7.08	4.0	22.0	5.1 -
	16.08.2019	Cooum River (13.13539877, 80.26020588)	7.08	4.0	22.0	5.1
2	18.11.2019	Buckingham Canal (13.014605, 80.181794)	7.33	9	54	5.7 -
		Cooum River (13.13539877, 80.26020588)	7.82	9	54	4.6
Standards	IS 2296 (Class C)		6.6-8.5	3	-	4

Noise Quality

Site No.	Date of Sampling	Site Location	LA _{eq} (dBA)	
			Day Time	Night Time
1	14.08.2019	Manapakkam (13.01255548, 80.26750220)	56.0	50.2
		Karampakkam-Chettiyar Agaram (13.0484007, 80.14560549)	57.6	51.0
	16.08.2019	Manali (13.17061437, 80.25904231)	58.6	51.2
		Chinnasekkadu (13.15096313, 80.25832230)	55.9	49.2
		Manapakkam dumping area (13.002397, 80.095632)	59.2	50.5
2	18.11.2019	Manapakkam (13.015153, 80.18166)	53.0	49.6
		Karampakkam (13.04650, 80.13650)	52.9	48.9
		Manali (13.172366, 80.254454)	53.4	49.6
		Chinnasekkadu (13.163179, 80.261229)	53.1	48.7
		Manapakkam dumping area (13.002397, 80.095632)	52.9	48.7
Standards			75	70

Inference: Most of the parameters were observed to be within the permissible limits except for one surface water quality which however does not seem from project activity. No incidents like increased air pollution or flooding of sites or pollution of nearby waterbodies have been reported to have occurred during the project implementation.

6.GRIEVANCE REDRESSAL MECHANISM

Grievance Redressal Mechanism has been finalized for TNUFIP and all the projects under the TNUFIP Tranche 1 are required to follow the mechanism suggested to resolve grievances arising during the project implementation. This has been adopted and is included as part of the sub-project IEE reports.

A common GRM will be in place to redress social, environmental or any other project related grievances. The GRM aims time-bound and transparent mechanism to voice and resolve social and environmental concerns linked to the project.

Grievance Redressal Mechanism as suggested in the IEE has been established for all the sub-projects.

Contact details for Grievance Redressal Committee are also disclosed in work sites. Grievance Register is being maintained during the project implementation.

7.COMPLAINTS RECEIVED DURING THE REPORTING PERIOD

All grievances – major or minor, during the project implementation are registered. Officials are maintaining a register of all grievances with the name of the complainant, date of receipt of the complaint, address/contact details of the person, location of the problem area, and how & when the problem was resolved, etc.

From the details of the grievances recorded it is observed that most of the grievances have been regarding the disruption to water supply house service connections & dumping of excavated earth near the residences which are resolved then & there and no pending grievances reported.

8.PUBLIC DISCLOSURE

- Apart from disclosing the IEEs in the website, PIUs disclose summary of the project information in regional language in the project town in notice boards, to ensure public awareness on the project and the implementation.
- Advance notice on the project implementation one week prior to starting of work is distributed by the contractor at site to the residents with tentative date.
- Contact details of the officials concerned are also provided in the summary and the advance notice.

9.TRAINING PROGRAMS

Training programme covering Occupational Health and Safety, Labour requirements, etc are carried out regularly during project implementation at different stages by respective officials.

Training by Contractors:

EHS officers of the Contractors are providing periodical safety training programs, daily toolbox talks.

Induction training is provided to ensure orientation of the labourers to safety. Orientation programs cover EHS PLAN, Safe Operation procedure for risk activities, First aid and medical services/ housekeeping, Driving safety, Safety in offices, Fire extinguishers, use of Personal protective equipment, Noise pollution and prevention, Display boards, signs, warnings, Barricades, Construction safety aspects, Scaffolds, Environmental protection & waste disposal, etc.

CMSC: Environmental Safeguard Assistants of the CMSC conduct periodical training programmes to the contractor staff and labourers.

Safeguards Training:

Training programmes to sensitise the officials of ULBs, PIU, TWADB, CMWSSB, CMSC, and Contractors staff on Environmental and Social Safeguards were organized for the sub-projects under Tranche-1 and Vellore UGSS Ph III & Ambur UGSS under Tranche 2.

The topics like ADB safeguard policy, statutory requirements, safeguard compliance, role of different stakeholders, EHS requirements, etc were covered during the programme. The participants were from the Local Body, PIU officials, CMSC staff, and contractor staff from all the packages.

With this all the sub-project towns under Tranche 1 have been covered under safeguard training. Similar training programmes are also being planned in other sub-project towns under Tranche 2 to create awareness among the project implementation and monitoring staff.

TNUFIP - Environmental and Social Safeguards Trainings

Date	Place	Sub-project	No of Participants		
			Male	Female	Total
08.03.2019	Tirunelveli	UGSS Phase II & Phase III	36	2	38
20.03.2019	Rajapalayam	UGSS	24	2	26
22.03.2019	Trichy	UGSS Phase II	55	5	60
06.09.2019	Chennai	UGSS & WSS	36	5	41
16.09.2019	Vellore	Vellore UGSS Phase II (Tranche -1) Vellore UGSS Ph III & Ambur UGSS (Tranche-2)	71	2	73
21.10.2019	Coimbatore	UGSS	33	3	36
		Total	255	19	274

Photos Safeguards Training for sub-projects under in Tranche 1 & Tranche 2



Tirunelveli UGSS Ph II & Ph III (08.03.2019)



Trichy UGSS (22.03.2019)



Rajapalayam UGSS (20.03.2019)



Chennai WSIS and Chennai UGSS (06.09.2019)



Vellore UGSS Ph II, Vellore UGSS Ph III & Ambur UGSS (16.09.2019)

Coimbatore UGSS (22.10.2019)

APPENDIX - PHOTOS



Advance Notice to residents for start of works – Trichy UGSS Package 1



Road Compaction in progress - Trichy UGSS Package 2

FORMAT FOR REDUCTION OF COMPLAINTS AND ITS REPORTING

Project Details		Substation			
1. Name of project	Trichy UGSS Phase II				
2. Name and address of the Contractor	L&T Construction (WET) Co				
3. Contract date and number	26.07.2018 to 28.07.2018				
4. Details of Complaint Received	Site Name - UGSS - Sakthya Nagar.				
S. No.	Date of Complaint	Name and address of person with contact details	Complaint	Action taken with date	Signature of SIB Engineer
1	13/11/2019	Sakthya Nagar Contact: 8608554620	3 rd water line Rectification	13/11/2019	G. Rajesh
2	14/11/2019	3 rd water line work Sakthya Nagar Kudimurugan Nagar Contact: 8608554620	3 rd Municipal water line change Rectification	14/11/2019	G. Rajesh
3	16/11/2019	Sakthya Nagar Kudimurugan Nagar Contact: 8608554620	3 rd main line water Rectification work	16/11/2019	G. Rajesh

NOTE: In this format shall be submission of work site office of the contractor. This cover format shall be used to complete and report the details of complaint received at all sites in the PMU along with the Monthly Report of the Contractor. The SIB of PMU has to give feedback to the Contractor. If any further action be taken on any complaint.

Grievance Register in Tirunelveli UGSS – Phase II

UGSS TO RAJAPALAYAM MUNICIPALITY UNDER AMRUT SCHEME
GRIEVANCE REGISTRATION FORM
RAJAPALAYAM.

S. NO.	DATE	NAME & ADDRESS	NATURE OF COMPLAINTS	METHOD OF COMPLAINTS	ACTION TAKEN	SITE ENGINEER SIGNATURE
1	01/10/19	Vedha Vedha Nagar Thiruvallur District	Request to replace the manhole cover	Phone Call 88888155	Replaced the manhole cover	[Signature]
2	02/10/19	Mudaluru Mudaluru Nagar Tamil Nadu	Request to replace the manhole cover	Phone Call 88888155	Replaced the manhole cover	[Signature]
3	03/10/19	Pandi Pandi Nagar Tamil Nadu	Request to replace the manhole cover	Phone Call 88888155	Replaced the manhole cover	[Signature]
4	04/10/19	Sanjay Sanjay Nagar Tamil Nadu	Request to replace the manhole cover	Phone Call 88888155	Replaced the manhole cover	[Signature]
5	05/10/19	Rajesh Rajesh Nagar Tamil Nadu	Request to replace the manhole cover	Phone Call 88888155	Replaced the manhole cover	[Signature]
6	06/10/19	Sanjay Sanjay Nagar Tamil Nadu	Request to replace the manhole cover	Phone Call 88888155	Replaced the manhole cover	[Signature]

Grievance Register in Rajapalayam UGSS – Package 1



Disclosure for project information – CMWSSB WSIS



Disclosure of GRM in project site – Coimbatore UGSS



Material Storage - Tirunelveli UGSS Ph-III



Road restoration in progress – Coimbatore UGSS Package 1



EHS training at sites – Tirunelveli UGSS Phase II



Training to Labourers – Mockdrills – Coimbatore UGSS Package 1



Medical Camp – Chennai WSIS



Health Camp – Coimbatore UGSS Package 1



Medical camp – Rajapalayam UGSS Package 1



HIV/AIDS Awareness program – Trichy UGSS Package 2



Labour camp in Rajapalayam UGSS Package 1



Labour Labour Camp – Vellore UGSS Ph II – Package 3

SAUW Semi-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:	India: TAMIL NADU URBAN FLAGSHIP INVESTMENT PROGRAM (TNUFIP) - TRANCHE 1			
Loan Number:	3718	Project Number:	49107-004	
Overall Project and Objectives	Tamil Nadu Urban Flagship Investment Program (TNUFIP) will develop priority water supply, sewerage, and drainage infrastructure in at least 10 cities in strategic industrial corridors in Tamil Nadu. It will (i) support innovative pilot projects, including India's first solar-powered sewage treatment plant (STP) to offset greenhouse gas emissions and enhance operational efficiency; (ii) strengthen urban governance; and (iii) build capacity of state and local institutions to enhance urban service delivery, environmental sustainability, and climate resilience			
Approved Categorization		Category A		Category C
	X	Category B		FI
Loan Effectively Date:	12 February 2019		Frequency of Reporting	Semi-Annual
Project Officer	Vivian Castro-Wooldridge		Project Analyst	Ninette R. Pajarillaga
Reporting Year	2019	Coverage Period	01 July 2019 to 31 December 2019	2nd SEMR of the year
Date of PMU submission to ADB	15 February 2020		Date of ADB's feedback/comment to PMU	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
A. Project Safeguards Team (<i>check loan agreement and PAM requirements</i>)				
PMU ¹	PMU (TNUFSL) have appointed Ms. Chitra Rajesh as Environmental Safeguard Manager and Dr. Raman as Social Safeguard Manager	Complied	In comparison with earlier SEMR (Jan to Jun 2019), this version of SEMR is observed to be improved, however as mentioned in the EARF (Appendix 17) additional information including <ul style="list-style-type: none"> • Summary of Consultation • Copies of environmental clearances and permits • Sample of environmental site inspection report • all supporting documents including 	

¹ PMU – project management unit

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
			signed monthly environmental site inspection reports prepared by consultants and/or contractors could have been enclosed for better understanding of the ESMP implementation across all T1 and T2 projects	
PIU ²	<p>6 PIU's has been established. In each PIU, a designated safeguard officer (additional role) has been appointed.</p> <ul style="list-style-type: none"> • Tirunelveli – Mr. Arul (AE) • Trichy – Ms. Muthulakshmi (AE) • Vellore – Mr. Ramesh Kumar (VCMC) • Rajapalayam – Mr. Gopal (AEE - TWAD) • Coimbatore – Mr. R. Manivannan (AEE) • Chennai – <ul style="list-style-type: none"> ○ CMWSSB, WSIS –Ms. Geetha (AEE) ○ CMWSSB, UGSS – Mr. V.P Senthil Kumar (AEE), Mr. J. Elayaraja (AEE) 	Complied.		
Consultants	<p>UGSS packages in Coimbatore and Rajapalayam are supported by TWAD and they also act as PIU.</p> <p>For other packages, the PIU's are supported by the CMSC.</p> <ul style="list-style-type: none"> • Tirunelveli UGSS- M/s. SAI Consulting Engineers Pvt Ltd • Trichy UGSS- M/s. Shah Tech Consultants • Vellore UGSS- M/s. Shah Tech Consultants 	Complied.		

² PIU – project implementation unit (For Rajapalayam UGSS and Coimbatore UGSS the TWAD is appointed as PIU)

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
	<ul style="list-style-type: none"> Chennai (CMWSSB (UGSS & WSIS))- Ms. NJS Voyants Consultants 			
Others (e.g. auditor, external monitoring team, etc)	Not Applicable.	Not Applicable	.	
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)	14	Construction is in progress for all 13 packages (including Solar component - a package for Coimbatore) and for one package, work order has been awarded	None	
Number of DB/DBO packages and status (see footnote 3)	4	3 packages (TNUFIP/CBE/03, TNUFIP/TIRP/03, TNUFIP/VEL/03) are in the design stage For one package (TNUFIP/RPM/02) Work order to be issued	As per the procurement plan and the IEE tracking sheet, the STP component in Coimbatore has been indicated as TNUFIP/CBE/03). However in the SEMR, it is indicated as TNUFIP/CBE/02 and Solar component has been mentioned as TNUFIP/CBE/03. Kindly justify the change in the package	
Number of packages under Grant Component - Tranche 1	1 (Solar)	Feasibility study and preparation of bid document is in progress	None.	
Number of civil works packages and status (see footnote 3)	14	13 packages are under implementation and for one package, work order has been issued	None.	
IEEs cleared for awarded packages?	Table 3 in the SEMR, indicates for all the 14 packages, the Draft IEE has been cleared and disclosed	For the final IEE, except the package (TNUFIP/CMWSSB/01) for water supply in Chennai (CMWSSB), all other 13 packages are still in the preparation of the final IEE	Final IEE has to be prepared for the remaining 13 packages and it should be disclosed at the earliest	
Safeguard documents disclosed on project website?	It is indicated as the Draft IEE's for the 13 packages has been	Appropriate web link to the disclosed safeguard	The status of the IEE for Package	

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						
	disclosed in the PIU's and PMU website. However, the status of the IEE for the remaining 1 package (TNUFIP/RPM/02) is not mentioned in the SEMR	documents (IEE's) should be given in the SEMR	(TNUFIP/RPM/02) have to be included in the SEMR							
SEMR information on package-wise implementation phase (bidding, on-going, construction, completed, under operation, others)	Out of 14 packages, 10 packages belongs to civil contract and the work is in progress (on-going). For the remaining 4 packages which comes under the DBO, 3 packages (TNUFIP/TIRP/03, TNUFIP/VEL/03, TNUFIP/CBE/02) are in the Design stage and work order has been issued for one package (TNUFIP/RPM/02)	None	None							
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)	Not applicable	None	None							
Forest Clearance	Not applicable	None	None							
No Objection Certificate/Letter	<table border="1"> <tr> <td data-bbox="556 784 735 1117">TNUFIP/TEVL-02</td> <td data-bbox="735 784 955 1117">Consent to Operate for existing STP has been applied to TNPCB</td> </tr> <tr> <td data-bbox="556 1117 735 1360">TNUFIP/TIRP/01</td> <td data-bbox="735 1117 955 1360">ASI permission is applied for construction works within 300m of Erumbeeswarar Temple (ASI site)</td> </tr> <tr> <td data-bbox="556 1360 735 1516">TNUFIP/TIRP/03</td> <td data-bbox="735 1360 955 1516">Consent to establish for new STP has been applied to TNPCB</td> </tr> </table>	TNUFIP/TEVL-02	Consent to Operate for existing STP has been applied to TNPCB	TNUFIP/TIRP/01	ASI permission is applied for construction works within 300m of Erumbeeswarar Temple (ASI site)	TNUFIP/TIRP/03	Consent to establish for new STP has been applied to TNPCB	The mentioned, permission and NoC's are pending for a longtime This has been discussed in every ADB mission. As discussed with the PMU and PIU, the reasons for delay lies with the competent authority	Frequent follow up should be taken in achieving the same. The delay in obtaining NoC's and Permission should be discussed with the top management.	
TNUFIP/TEVL-02	Consent to Operate for existing STP has been applied to TNPCB									
TNUFIP/TIRP/01	ASI permission is applied for construction works within 300m of Erumbeeswarar Temple (ASI site)									
TNUFIP/TIRP/03	Consent to establish for new STP has been applied to TNPCB									

Item	Findings in the SEMR		Comments	Action/s Required	Response by PMU
		PWD permission for discharge of treated water from the STP			
	TNUFIP/VEL/02	ASI permission is applied for construction works within 300m of Vellore Fort			
	TNUFIP/VEL/03	Consent to establish for new STP has been applied to TNPCB			
		PWD permission for discharge of treated water from the STP			
	TNUFIP/CBE/02	Consent to establish for new STP has been applied to TNPCB			
	TNUFIP/CMWSSB/01	CRZ Clearance has been applied for the section of distribution system in Uthandi			
Site location clearance	No information provided.		Gist of the RAP should have been included in the SEMR for highlighting the LA/ site clearance issues		
Permit/Consent to Construct (or equivalent)	TNUFIP/TEVL-02	Consent to Operate for existing STP has been applied to TNPCB	The CTE status (just not sufficient if it is mentioned as being followed) should be included for the DBO packages having STP.	The CTE status with necessary documents including the date of application applied should be included in the SEMR	
		Consent to establish for	For the packages requiring ASI clearance, the status	Similarly for ASI and PWD permissions, necessary	

Item	Findings in the SEMR		Comments	Action/s Required	Response by PMU
		new STP has been applied to TNPCB	should have to be updated, to detail when likely the clearance from ASI will be obtained	documents including communication, inspection reports etc. shall be annexed to the SEMR for ADB's view and understanding	
TNUFIP/TIRP/01	ASI permission is applied for construction works within 300m of Erumbeeswarar Temple (ASI site)	Similarly, for obtaining PWD permission, the status shall be highlighted to mention when likely to obtain the permission			
TNUFIP/TIRP/03	Consent to establish for new STP has been applied to TNPCB				
	PWD permission for discharge of treated water from the STP				
TNUFIP/VEL/02	ASI permission is applied for construction works within 300m of Vellore Fort				
TNUFIP/VEL/03	Consent to establish for new STP has been applied to TNPCB				
	PWD permission for discharge of treated water from the STP				
TNUFIP/CBE/02	Consent to establish for new STP has been applied to TNPCB				
TNUFIP/CMWSSB/01	CRZ Clearance has been applied for the				

Item	Findings in the SEMR		Comments	Action/s Required	Response by PMU
		section of distribution system in Uthandi			
Permit/Consent to Operate (or equivalent)	It is indicated as Consent to Operate (CTO) for an existing STP in the package TNUFIP/TEVL-02 has been applied		The status remains same in comparison with the previous SEMR (Jan to Jun 2019). Please update the status by mentioning the tentative date of obtaining permission from the TNPCB, in discussion with them.	Compliance to the suggestions as mentioned in the comments	
Road-cutting permit	No information has been provided in the SEMR.		Road cutting permission from the line department (Highways/ Municipalities/ Corporation) has to be included in the SEMR	Information pertaining to the clearance shall be indicated in the SEMR	
Utilities shifting permit	No information has been provided in the SEMR.		Though it is not mentioned in the IEE, the Utility shifting permission from the line department (PWD, TNEB etc.) should be provided in the SEMR. If a lump-sum fee has been paid to the competent authority, then the copy of the same should be provided.	Information pertaining to the clearance shall be indicated in the SEMR	
Tree-cutting permit	No information has been provided in the SEMR.		The Final IEE's should include the number of trees affected by the project and its appropriate mitigation measures	Accordingly the SEMR should be updated with suitable monitoring plan/measures for the afforested trees	
Others (specify)					
1. CTE for diesel generators and hot mix plants, wet mix plants, stone crushers, batching plants	No information has been provided in the SEMR.		SEMR should include the CTE information, if the contractor is planning to have his own hot mix plant, wet mix plants, stone crushers, batching plants. If the Contractor is planning to procure the materials from an authorized vendor, then the CTE and other clearances/ government	Package wise status should be provided.	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
		orders from the line departments (NoC for quarry from mines department, using water for construction permission from PWD etc.,) should be furnished in the SEMR		
2. CTO for diesel generators and hot mix plants, wet mix plants, stone crushers, batching plants	No information has been provided in the SEMR.	<p>SEMR should include the CTO information, if the contractor is planning to have his own hot mix plant, wet mix plants, stone crushers, batching plants</p> <p>If the Contractor is planning to procure the materials from an authorized vendor, then the CTO and other clearances/ government orders from the line departments (NoC for quarry from mines department, using water for construction permission from PWD etc.,) should be furnished in the SEMR</p>	Package wise status should be provided.	
3. Pollution control certificate (PUC) for all vehicles and equipment	No information has been provided in the SEMR.	Required for all packages. The Contractor should submit the PUC's for the vehicles and equipment, which should be complied in the SEMR	Package wise status should be provided.	
4. Labor license	<p>As per previous SEMR (Jan to Jun 2019) out of 14 packages labor license information has been provided for 12 packages. The packages TNUFIP/ TIRP/01, 02 and 03, TNUFIP/ VEL/02, TNUFIP/ CMWSSB/01 and 02 are indicated as the labour license has been applied.</p> <p>The status of the same is not mentioned in this SEMR</p>	The labour license status for the following packages TNUFIP/ TIRP/01& 02, TNUFIP/ VEL/02, TNUFIP/ CMWSSB/01 and 02, should be included in this SEMR	As indicated in the Comments sections	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
5. ASI clearance	It is indicated for the packages TNUFIP/ TIRP/01 and TNUFIP/VEL/02, ASI permission has been applied and the status has been updated	The construction works near the ASI site should start only after obtaining the ASI permission	PMU and PIU should communicate to the Contractor about the ASI clearance and its restrictions in construction works, the communication letter should be included in the SEMR	
6. Temporary traffic diversion measures	No information has been provided in the SEMR.	Required for all packages. As part of the EMP, Traffic Management Plan (TPM) should be prepared by the contractor, which shall be shared with the CMSC for approval.	The prepared TPM shall be annexed in the SEMR. Frequent follow up should be taken in submission of the same by the Contractor	
D. Status of Compliance with loan covenants (verify items in SEMR with the project's loan agreement)				
Environment (Schedule 5, item 11)	Not included	Compliance status with environmental loan covenants as indicated in the EARF (Appendix 17: Semi-Annual Environmental Monitoring Report Template) should be adopted for preparing the SEMR		
Human and financial resources to implement safeguards requirements (Schedule 5, item 15)				
Safeguards-related provisions in bidding documents and works contracts (Schedule 5, item 16)				
Safeguards monitoring and reporting (Schedule 5, item 17)				
Prohibited list of investments (Schedule 5, item 18)				
Labor standards, health and safety (Schedule 5, Item 19)				
E. Contractors Compliance with Environmental Safeguards Requirements				
Appointment of Environment, Health and Safety (HSE) and/or nodal person	For all the packages, Contractors have appointed EHS nodal person	Complied		
Submission of site-specific EMPs	Out of 14 package, the SEMP status has been provided for 12 packages. The remaining 2 package's, which is falling in the Coimbatore (TNUFIP/CBE/02) and Rajapalayam (TNUFIP/RPM/02) have not submitted the SEMP	Please confirm that the submitted SEMP's by the Contractor has been approved by the PIU's and accordingly the EMP has been complied in the construction sites.	Please provide the status of site specific EMP's for the left out packages TNUFIP/CBE/02 and TNUFIP/RPM/02 in the SEMR. For the packages, in which the SEMP have not yet	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
			been submitted and works are already in progress, a suitable Corrective Action Plan (CAP) has to be prepared by specifying the date for submission and provide the written notice to Contractor for such non-compliance.	
Submission of SEMP implementation report (<i>specify in comments frequency – daily, weekly, monthly or quarterly basis</i>)	No information has been provided in the SEMR.	It is understood from the SEMR, that the SEMP's submitted by the contractors are yet to be approved by the CMSC/PIU	SEMP's should be approved by the PIU's/CMSC, accordingly the activity based SEMP compliance should be recorded and to be submitted monthly (as SEMP implementation report) along with the MPR. The frequency of the monitoring has to be specified package wise along with the EHS nodal officer details, who did the inspection.	
Site verification by PMU, PIU, or consultants (<i>verification report should be attached to the SEMR</i>)	No information has been provided in the SEMR.	Not clear if contractors have submitted verification report or the PIU's / CMSC have requested for the same	The table on the "Summary of Environmental Monitoring Activities (for the Reporting Period)" is not clear. It is prepared as a whole for all packages in the TNUFIP. Hence, it is suggested to provide package wise information by indicating the responsible person for implementation, monitoring and reporting (similar request has been given in the earlier SEMR review)	
SEMR compliance matrix on mitigation measures implementation (matrixes are based on approved SEMP's)	No information has been provided in the SEMR.	It is understood from the SEMR, that the SEMP's submitted by the contractors	The status of the SEMP's should be updated (whether it is accepted/	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
		are yet to be approved by the CMSC/PIU	approved by the CMSC/PIU)	
Other information	-	-	-	
F. Environmental Monitoring based on EMP				
Rationale	Overall EMP implementation for all the sub project packages are monitored by the PMU. PIU's and CMSC are monitoring the specific sub-project packages. The appointed Environmental Safeguards Assistant (ESA) in each of the CMSC is carrying out periodical site visits to monitor the compliance to safeguard and submit their reports to PIU's.	In the previous SEMR (Jan to Jun 2019), it is indicated as "Site visit notes of the ESA is being submitted to PMU as part of the monthly CMSC (MPR's) report". This sentence has been removed in this SEMR (Jul to Dec 2019). Is there any issue pertaining to submission of the site notes by the CMSC?	The observations from the field in the form of site notes will give better clarity and understanding of the site and hence it is suggested to include it in the SEMR as one of the annexure.	
Parameters to be monitored are commensurate to the impacts, mitigation measures, and project/subproject/package	No information has been provided in the SEMR	The basis for the selection of locations for conducting the monitoring has to be detailed in the SEMR.	Provide justification on selected sampling locations.	
Sampling locations identified and appropriate	No information has been provided in the SEMR.	It is indicated as sampling locations are near to the work sites. Justification for the same should be included in the SEMR.	Category of the sampling site should be provided (residential, commercial, sensitive and industrials)	
Sampling frequency identified and appropriate	No information has been provided in the SEMR.	SEMR should include specific schedule and frequency of sampling as indicated in the IEE's.	Construction Stage Environmental Monitoring Plan as indicated in the IEE's should be included in the SEMR	
Sampling collection and analysis are in accordance with internationally-accepted practices	Environmental quality monitoring has been conducted for Ambient Air, Ambient Noise and water quality as per the Indian standards published by the CPCB and MoEF&CC.	The standards used for the sampling collection and analysis have to be detailed in the SEMR	The standards have to be referred in the SEMR	
Standards and performance indicators are compliant with ADB SPS requirements ⁴ (provide	No information has been provided in the SEMR.	Standards have not been provided.	Provide the necessary standards and compare with internationally-	

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
justification if less stringent standards are used)			accepted guidance values.	
G. Environmental monitoring results (narrative based on presented results)				
Visual inspection (<i>refer to EMP tables in the IEE where visual inspections are required to determine if there are environmental impacts</i>)	It is indicated as visual observation for all sub project packages has been conducted continuously in all work sites and Labour Camps by safeguard personnel of PIU's/ CMSC and EHS personnel of the contractor	The outcome of the visual inspection has not been recorded and shared in the SEMR	It is suggested to provide sub-project package wise site inspection/ visual observation report in the SEMR (it shall be annexed in the SEMR with appropriate references in the main report).	
Air quality results	Subproject wise air quality results are not provided in the SEMR. Some of the subproject packages are clubbed for analyzing the air quality results. However, the outcome is not clear.	The analysis of the outcome is too generic (comprising all the subproject packages) Appropriate justification should be given for the observed values, which is close/ near the standard value	Subproject package wise air quality results and appropriate analysis should be provided in the SEMR. The site photos (random wise) should be enclosed in the annexure with appropriate reference. Construction Stage Environmental Monitoring Plan as indicated in the IEE's should be adopted	
Water quality results	The water quality parameters are very much limited and it is not in line with the standard requirements. For Rajapalayam UGSS, water quality has not been assessed. The inference given for the water quality analysis is too generic (comprising of all the subproject packages). It is observed that the BOD and DO values/ concentration is exceeding for packages in Tirunelveli (Phase 1 & 2), Tricy and CMWSSB UGSS (For DO). Similarly Alkalinity concentration is exceeding in Vellore package. Accordingly the	For groundwater samples only three parameters has been analysed viz. pH, Turbidity and alkalinity and for the surface water samples only 4 parameters has been analysed viz... pH, COD BOD and DO The justification for choosing limited parameters should be explained in the SEMR The inference from the analysis should be clear and for the observed values that are closer or exceeding the	Subproject wise environmental monitoring analysis should be provided in the SEMR The site photos (random wise) should be enclosed in the annexure with appropriate reference Construction Stage Environmental Monitoring Plan as indicated in the IEE's should be adopted	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
	inference should have been prepared and justification for the increase in concentration should have been mentioned	standard values, suitable mitigation measures should be suggested in the form of an Action Taken Report (ATR)		
Noise level results	<p>Based on the information shared in the SEMR, the noise quality analysis has been conducted at the work sites and the outcome of the analysis are observed within the permissible limits.</p> <p>The observed values are compared with the Industrial noise standard (Leq 75 for day and 70 for night).</p>	<p>Noise quality sampling locations are not categorized as residential, sensitive, commercial and industrial.</p> <p>The basis for using the 70 dB(A) for Night time and 75 dB(A) for Day time for comparing the noise level results are not clear, because the project areas are falling under urban areas and not in an industrial zone</p> <p>The inference from the analysis should be clear and for the observed values that are closer to the standard values, suitable mitigation measures should be suggested in the form of an Action Taken Report (ATR)</p>	<p>Sampling locations have to be categorized as per the noise pollution (regulation and control) rules, 2000.</p> <p>Appropriate values as per the categorization should be used to compare the noise level results.</p> <p>Subproject wise analysis should be provided in the SEMR</p> <p>The site photos (random wise) should be enclosed in the annexure with appropriate reference</p> <p>Construction Stage Environmental Monitoring Plan as indicated in the IEE's should be adopted</p>	
Others				
H. Consultations and/or FGDs during the reporting period				
Number	No information has been provided in the SEMR.		Justify why there has been no consultations, FGDs or stakeholders consultations conducted during reporting period.	
Reason/s for consultations/FGDs				
Number of participants				
Number of female participants				
I. Trainings, Workshops, Seminars during the reporting period				
Number	<p>3 safeguard trainings has been conducted from July to December 2019</p> <p>i. Chennai (UGSS & WSS) on 06.09.2019</p>	Other trainings at field level given by the PIU/ CMSC should be included in the SEMR	Information pertaining to the training programs conducted by the Contractors and the	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
	ii. Vellore UGSS Phase II (Tranche -1), Vellore UGSS Phase III & Ambur UGSS (Tranche-2) on 16.09.2019 iii. Coimbatore UGSS on 21.10.2019		CMSC has to be recorded and annexed in the SEMR	
Topics	It is indicated that the following topics has been covered by the training program conducted by the PMU <ul style="list-style-type: none"> • ADB safeguard policy, • Statutory requirements, • Safeguard compliance, • Role of different stakeholders, and • EHS requirements, etc. 	Information on the participants should have been discussed in the SEMR under the training program		
Number of participants	It is indicated as 73 participants (71 male and 2 female) have attended the safeguard training in Vellore. Likewise 41 participants (36 male and 5 female) have attended safeguard training in Chennai and 36 participants (33 male and 3 female) attended in Coimbatore safeguard training			
Number of female participants	10 female participants attended the training program			
J. Grievance Redress Mechanism				
GRM per PAM or IEE/EARF established	GRM as per IEE/EARF has been established for all TNUFIP packages			
GRM notified via publication or notice boards	No information is given in the SEMR. It is indicated as “Contact details for Grievance Redressal Committee are also disclosed in work sites”.	GRM Notification (sub project wise) should be included in the SEMR	Confirm if GRM(s) have been notified. In next SEMR, confirm if contractors are provided with information/instructions on grievance redressal and a logbook is maintained on site to record complaints. Notice boards showing contact details should also be put on site.	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
GRM members identified	For all TNUFIP packages, the GRM members are identified	The details of the GRM members have to be included in the SEMR	Provide specific information package wise	
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>	No information has been provided in the SEMR.		Provide specific information.	
Number of meetings conducted <i>(attach minutes of the meeting)</i>	No information has been provided in the SEMR.		Provide specific information.	
K. Complaints Received <i>(detailed information on nature of complaints, summary and status of resolution)</i>				
Number of complaints	No information has been provided in the SEMR. However, it is indicated as all grievances (major or minor), during the project implementation are registered and appropriate actions has been taken		Provide the details of the registered complaints (sub project wise) and how it has been sorted out/ resolved.	
Nature <i>(provide summary of issues/concerns)</i>	-	-	-	-
Status of resolution	-	-	-	-
L. Summary of Issues and Corrective Actions				
Major issues/concerns (specify)	No information has been provided in the SEMR.	Submission of Final IEEs for subproject packages are pending Regulatory requirements including obtaining CTE (DBO packages), CTO for existing STP, ASI permission (vellore UGSS and Trichy UGSS) and Highways permission for road cutting are pending. Environmental compliance with respect to Loan covenant has to be fulfilled for the listed safeguard requirements as mentioned in the Schedule 5 of the Loan agreement.	Based on the given comments, provide the requested information and update/ modify/ revise the SEMR	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
		Environmental monitoring outcome should be detailed sub project wise and based on the analysis, suitable mitigation measures should be suggested.		
Corrective Action to be implemented, timeline, responsible person/s, and budget are clearly specified	No information has been provided in the SEMR.	Based on the above observations, a suitable Corrective Action plan should be prepared by indicating the timeline, responsible person and budgetary requirement.	In next SEMR, provide detailed information on corrective actions. If not fully complied, provide written notification and deadlines to contractors.	
M. Status of Corrective Action Plan from Previous Reporting Period (list all and provide status)				
N/A				
N. Appendixes				
Photos included?	Yes, included			
Summary of consultations included?	Not Included			
Copies of environmental clearances and permits included?	Not Included		Attach all clearances and permits in next SEMR.	
Site EMPs (attach sample?)	Not Included		Submit site specific EMPs in next SEMR.	
Checklists?	Not Included			
Others				
O. Review and clearance for disclosure				
Reference	second SEMR submitted by TNUIFSL			
Reviewed by	Name Pushpanathan K Anik Ajmera (ADB HQ)		Date 13 March 20 20 March 20	
Response to ADB comments by:				
Status/Remarks	1. Recorded as submitted		17 February 20	
	2. Send comments to PMU			
	3. Revised SEMR and response to log sheet submitted by PMU		Cleared for disclosure. Responses will be included and be complied in the next SEMR.	