Resettlement Plan

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IND: Tamil Nadu Urban Flagship Investment Program– Tirunelveli Underground Sewerage System(Phase II)

Prepared by Tirunelveli City Municipal Corporation of the Government of Tamil Nadu for the Asian Development Bank.

CURRENCY EQUIVALENTS

(as of 11 May 2018)

Currency Unit – Indian rupee (₹)

₹1.00 = \$0.0149 \$1.00 = ₹67.090

ABBREVIATIONS

ADB – Asian Development Bank ASO – assistant safeguards officer

BPL – below poverty line

CMSC – construction, management and supervision consultant CMWSSB – Chennai Metro Water Supply and Sewerage Board

EUP – enter upon permission FGD – focus group discussion

GIAC – Governance Improvement and Awareness Consultant

GoTN – Government of Tamil Nadu
GRC – grievance redress committee
GRM – grievance redress mechanism

IPP – indigenous peoples plan

MAWS – Municipal Administration and Water Supply Department

NOC – no objection certificate
PIU – program implementation unit
PMU – program management unit
PWD – Public Works Department
RCC – reinforced cement concrete

RFCTLARR - Right to Fair Compensation and Transparency in Land Acquisition,

Rehabilitation and Resettlement

R&R – resettlement and rehabilitation

ROW – right-of-way

SIA – social impact assessment SPO - social project officer

SPS – Safeguard Policy Statement

SRSE – Social and Resettlement Safeguard Expert

STP – sewage treatment plant

TNUFIP – Tamil Nadu Urban Flagship Investment Program

TNUIFSL – Tamil Nadu Urban Infrastructure Financial Services Ltd.

TWADB – Tamil Nadu Water Supply and Drainage Board

UGSS – underground sewerage system

ULB – urban local body

NOTE

In this report, "\$" refers to US dollars.

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CONTENTS

EXECU	TIVE SUMMARY	Page i
I.	RESETTLEMENT PLAN	1
	A. Subproject Description	1
	B. Scope of Land Acquisition and Resettlement	2
	C. Socioeconomic Information And Profile	7
	D. Information Disclosure, Consultation and Participation	8
	E. Grievance Redress Mechanism	10
	F. Legal Framework	14
	G. Entitlements, Assistance and Benefits	15
	H. Resettlement Budget and Financing Plan	17
	I. Institutional Arrangements and Implementation Schedule	17
,	J. Monitoring and Reporting	23
APPEN	DIXES	
Append	lix 1: Details of Roads/Streets Screened Under Resettlement Survey for Phase	-I Area 24
Append	lix 2: Safety Measures For Pipelaying – Sample Template	40
Append	lix 3: Site Viisits And Consultations	41
Append	lix 4: Land Details	47
Append	lix 5: Land Records	48
Append	lix 6: Proposed Structure of Subproject Information Disclosure Leaflet	77
	lix 7: Sample Grievance Registration Form	78

EXECUTIVE SUMMARY

Subproject Scope. The Tamil Nadu Urban Flagship Investment Program (TNUFIP) is designed under the multitranche financing facility (MFF) modality of Asian Development Bank (ADB) financing and will primarily focus on improvement of water supply and sewerage services in selected cities of the state. The TNUFIP is envisaged to be structured under three main components: (i) investment in municipal infrastructure namely water supply and sewerage, (ii) municipal reform-based activities, and (iii) technical assistance for design, supervision, program management, reforms, and climate change. Tranche-I Tirunelveli subprojects are divided into separate bid packages, Phase-II and Phase-III, for ADB financing. Separate resettlement plans are prepared for both the packages. Phase-II include System-I, West of River Tamiraparani. The System-I will cover around 25 census wards; fully or partially and will cater to projected population of 250,600 for the intermediate design year of 2035. System-I subprojects comprise: (i) laying of around 225 kilometers (km) of sewer network of DWC/RCC pipes ranging from 200-700 millimeter (mm) dia; (ii) laying of 27 km of pumping mains of 150-450 mm diameter; (iii) construction of two sewage pumping stations; and (iv) construction of 11 sewage lift stations.

Key Findings. There is no permanent/temporary land acquisition envisaged for implementation of proposed subproject components. Construction of proposed sewage pumping stations and lift stations will be either accommodated within the existing facilities' premises or on vacant Government lands. Existing sewage treatment plant (STP) which is currently underutilized will be used at least till the intermediate design year for treatment of sewage from some part of the Tirunelveli. New sewer system will be laid within road rights-of-way (ROW) in the center of the road by cutting black top. In wider roads, like state highway and national highway, divided roads etc., sewers will be laid along the edge of the road, but mostly within the black top portion. Potential temporary impacts are assessed due to laying of new pipe networks. To estimate the potential temporary impacts, all roads/streets in project area were screened through transect walks for any encroachments on black top portion/ROW and detailed surveys were conducted for roads where temporary impacts were identified (August2017). Based on this, a total of 17roadside movable/transitory businesses that are currently within ROW are identified as potentially (temporarily) affected. These businesses are mainly (65%) tea/food/juice related stalls and the remaining (35%) sell other items like helmets, tyres etc. None of the surveyed potential affected persons belong to scheduled tribes or are women headed households. The majority were however assessed to be below poverty line (BPL). Average monthly income for potentially affected BPL is estimated at ₹130 per day and overall average for all affected persons is ₹208 per day

Recommended Actions. A draft resettlement plan has been prepared for Tirunelveli Phase-I/System-I subproject components to mitigate temporary impacts envisaged during construction/pipe laying. This Resettlement Plan is in line with the ADB Safeguard Policy Statement (SPS), 2009 and resettlement framework prepared for TNUFIP. A total resettlement budget (only compensation and grievance redress mechanism [GRM] or GRM costs) is estimated at ₹0.80million (approximately \$12,250) which includes livelihood losses for 25 days. A detailed measurement survey will be conducted in sections ready for implementation, based on detailed design, and the draft resettlement plan updated, based on survey results. The draft resettlement plan will be reviewed by PMU and submitted to ADB for approval prior to start of construction. In line with the resettlement framework, the resettlement plan has also laid down the structured outline for required institutional and implementation arrangements with schedule, grievance redress mechanism, consultation and disclosure activities and monitoring and evaluation. A summary of resettlement framework and resettlement plan in local language will be disclosed to representatives of all key stakeholders through a city level stakeholder

workshop. A hard copy of summaries will also be made available at urban local bodies (ULB) offices and full documents will be uploaded at their/ADB websites. Construction management and supervision Consultant's (CMSC) Social and Resettlement Safeguard Expert (SRSE);, and program implementation unit's assistant safeguard officer (PIU's ASO) will together will responsible for updation & implementation of resettlement plan, and program management unit's social project officer (PMU's SPO) is responsible for approval and implementation monitoring of resettlement plans. Governance improvement and awareness consultant (GIAC) will assist in monitoring resettlement plan implementation.

I. RESETTLEMENT PLAN

A. Subproject Description

- 1. The proposed Tamil Nadu Urban Flagship Investment Program (TNUFIP) is aligned to support in the following: (i) urban infrastructure across the state improved and world class cities focusing on universal access to 24x7 water supply services and sanitation facilities including tertiary treatment of sewage to become engines for economic growth developed (Vision 2030, Government of Tamil Nadu, [GOTN]); (ii) five industrial corridors developed (GOTN Vision 2030); (iii) quality of life for all, especially the poor and the disadvantaged improved (Mission Statement and Guidelines, Atal Mission for Rejuvenation and Urban Transformation (AMRUT) Government of India, 2015); and (iv) a clean and sustainable environment provided (Smart Cities - Mission Statement and Guidelines, Government of India, 2015). TNUFIP will focus on cities in five priority economic corridors: (i) Chennai-Hosur, (ii) Chennai-Tiruchirapalli, (iii) Coimbatore-Madurai, (iv) Coimbatore-Salem, and (v) Madurai-Thoothukudi. The reform-based component of the program will seek to provide results-based performance incentives to select cities and towns. The program shall also focus on transformative investments in 24X7 water supply, full sanitation coverage smart water management, and urban climate change resilience drawing from the support of various Asian Development Bank (ADB) grant technical assistance. The TNUFIP is envisaged to be structured under three main components: (i) investment in municipal infrastructure namely water supply and sewerage, (ii) municipal reform-based activities, and (iii) technical assistance for design, supervision, program management, reforms, and climate change. TNUFIP will be implemented over an 8-year period beginning in 2018, and will be funded by ADB via its MFF. The impacts of the TNUFIP will be (i) universal access to basic water and sanitation services achieved; (ii) "world-class" cities and industrial corridors across the state developed; and (iii) water security, reduced vulnerability to climate change in urban areas, and enhanced share of renewable energy achieved.
- 2. Currently, only part of the Tirunelveli city (~35%) is covered under functional sewerage system which was implemented in 2007 under centrally funded National River Conservation Program (NRCP)¹. The old system which was commissioned in 1989 is non-functional and needs replacement while it is required to extend sewerage system in additional extension and periphery areas of the city. Considering this, a new sewerage scheme is designed. Based on geographical conditions the entire scheme is divided into three systems: (i) System I-West of River Tamraparni; (ii) System II-East of River Tamraparni (Palayamkottai); and (iii) System III-East of River Tamraparni (Melepalayam). System-I is referred as Phase-II while System II and III together are referred as Phase-III. Phase II covers Tirunelveli administrative zone (full), Melapalayam administrative zone (partial) and Thachanallur administrative zone (partial). The Phase-II will cover 25 out of total 55 wards under Tirunelveli Municipal Corporation. For the intermediate design year of 2035; the Phase-II will cater to projected population of 250,600. Phase-II subprojects comprises of the following components:
 - (i) Phase II
 - (a) Laying of around 225kilometers (km) of sewer network of DWC/RCC pipes ranging from 200-700 millimeter (mm) dia;
 - (b) Laying of 27 km of pumping mains of 150-450 mm dia;
 - (c) Construction/Rehabilitation of two sewage pumping stations; and
 - (d) Construction of 11 sewage lift stations.

¹ This system is referred as Phase-I. There are no pending LA/R&R or other engineering issues wrt Phase-I that interfere with implementation of Phase-II and III under ADB financing.

3. Existing sewage treatment plant (STP) at Ramayanpatti which is currently underutilized will be used at least till the intermediate design year for the Phase-II. This Draft Resettlement Plan is prepared for proposed sewerage subprojects under Phase IIin Tirunelveli (Figure 1) and is in line with the resettlement framework prepared for the implementation of social safeguards under TNUFIP. The Draft Resettlement Plan will be updated based on detailed measurement surveys during detailed design.

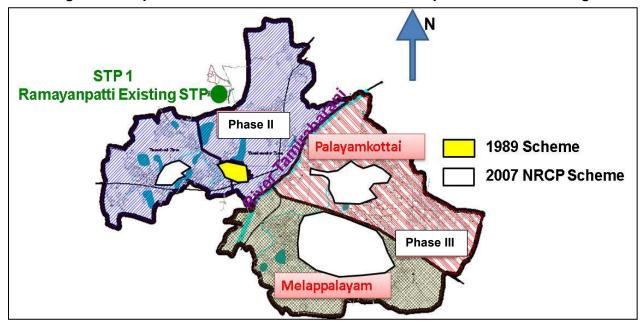


Figure 1: Proposed Phase II and III under Asian Development Bank Financing

B. Scope of Land Acquisition and Resettlement

- 4. Consistent with the subproject selection criteria, rehabilitation is prioritized over new construction to avoid/minimize involuntary resettlement impacts. Construction of proposed sewage pumping stations and lift stations will be either accommodated within the existing facilities' premises or on vacant Government lands. There is no permanent/temporary land acquisition envisaged for implementation of proposed subproject components. However, since many of the subproject sites are located within low income/slum areas it is advisable to provide proper fencing for the identified sites to avoid any encroachments and damage to facilities once constructed. Potential temporary resettlement impacts are identified due to rehabilitation and laying of sewer networks. Table 1 provides the details of proposed subprojects for Phase-II in Tirunelveli and anticipated involuntary resettlement impacts.
- 5. The sewer lines are generally laid in the centre of the road/street; away from water supply and other utility lines to avoid problems in accessibility for future operation and maintenance (O&M). New sewer system will be hence laid within road rights-of-way (ROW)in the centre of the road by cutting black top. In wider roads, like state highway and national highway, divided roads etc., sewers will be laid along the edge of the road, but mostly within the black top portion. Laying of sewers either in the middle of the road or at the edge of the road within the black top portion/ROW will not require land acquisition or cause permanent displacement, but will cause temporary access disruptions and possible temporary income loss during construction.

- 6. All roads/streets in project area were screened through transect walks for any encroachments on black top portion/ROW and detailed surveys were conducted for roads where temporary impacts were identified (August 2017), indicating potential temporary income loss to17roadside movable/transitory businesses. These impacts will be verified through detailed measurement surveys based on detailed design prior to implementation. The resettlement plan will be updated based on the results of detailed measurement surveys and census and socioeconomic surveys of affected persons. Appendix 1 provides summary of transect walk surveys, which confirm that the impacts of sewer laying for Phase-I in Tirunelveli are temporary. These are majorly non-titled movable /transitory structures within the ROW.
- 7. In line with the ADB's Safeguard Policy Statement (SPS)2009, and based on the identified impacts, the Tirunelveli Phase-II subproject can be classified as Involuntary Resettlement Category "B". Resettlement Plan preparation is required for Tirunelveli Phase-II subproject components in line with the ADB SPS,2009 and Resettlement Framework prepared for TNUFIP. This document is a Resettlement Plan for Tirunelveli Phase-II Underground Sewerage System (UGSS).
- 8. To further minimize construction impacts, work will be executed during early hours of the day in order to avoid inconveniences to the public as well as traders and vendors. All safety norms would strictly be adhered to depending on the magnitude of work and the sensitivity of the location. Appendix 2 provides sample impact minimization measures template to be followed for pipe laying². The program implementation unit (PIU) will also ensure that all the necessary rules related to safety and security of the public and residents are followed by the contractor. The actual dates of construction schedule with respect to rush hour, festival time, and special business days will be discussed with vendors, squatters, market committee members, and residents, and accordingly construction activities will be planned. After laying pipes the lane/road will be restored for the cutting portion/excavated trench.

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² This will be updated based on the revised project scope and detailed drawings before project implementation.

Table 1: Proposed Subproject Components in Tirunelveli UGSS Phase-II

	Proposed Subproject Components	Scope of Land Acquisition and R&R	Summary
1	Sewer Network. Laying of total225km of new sewer network of DWC/CI pipes ranging from 200-750 mm dia.	Sewer pipes will be buried below in a trench in the middle of the road within black top portion/right-of-way. For wider/divided roads sewers will be buried below in a trench on the edge of the road but still within the black top portion; within the existing ROW. Temporary impacts on movable structures within ROW are envisaged on 17affected persons.	Temporary economic impacts to 17vendors
2	Pumping Mains. Laying of 27 km of newpumping main of cast iron pipes ranging from 150-700 mn dia.	Pumping mains will be buried below in a trench in the middle of the road within ROW. No land acquisition and R&R envisaged	No involuntary resettlement/Indigenous Peoples impacts anticipated
3	Pumping Stations. Phase-II: Construction of new sewage pumping station near slaughter house and improvement to existing sewage pumping station at Nainarkulam. (Refer Appendix 3, 4 & 5 for layout drawings, site photos, ownership records and enter upon permission or EUPs/No Objection Certificates of NOCs).	Pumping Station-1 (Proposed). The proposed Pumping Station-1 is located near municipal slaughter house along Pettai-Palayapettai link road. The total site area is around 15 acres and site is surrounded by vacant agricultural lands. Except slaughterhouse, the site is free of any structures, sheds, major vegetation, trees etc. The land is under ownership of TMC (TS No.7, Block 1, Ward AC). The land is classified as dumping site. PS-1 requires total area of around 3,500m². Adequate land is available for the construction of PS-1. No land acquisition and R&R envisaged. Pumping Station-2 (Existing). The existing Pumping Station-2 is located at Nainarkulam. Proposed new modules will require 148m². area which is available within the existing premises. The land belongs to TMC and no land acquisition and R&R envisaged.	No involuntary resettlement/Indigenous Peoples impacts anticipated
4	Lift Stations. Construction of 11 new lift stations at various locations of 2.5-3.0 m. collection well diameter. (Refer Appendix3, 4 &5 for layout drawings, site photos, ownership records and EUPs/NOCs).	Phase-II Lift Station-1. The site is vacant and located at Srinivasa Nagar near OHT. The land belongs to TMC and classified as government land under urban land ceiling. (TS No 304/, Block 5, Ward T). No land acquisition and R&R envisaged. Lift Station-2. The site is vacant and located at Sathya Nagar near	

Proposed Subproject Components	Scope of Land Acquisition and R&R	Summary
	residential houses and lake. The land belongs to Slum Clearance Board and classified as government excess land (TS No 109/2, Block 4, Ward U). No land acquisition and R&R envisaged; however, EUP is required.	
	Lift Stations-3. The site is vacant and located at Kattabomman street. The land belongs to TMC and classified as water tank/toilet site (TS No 1672, Block 11, Ward W). Water tank and toilet is already present in the site and remaining land is adequate for the construction of LS. No land acquisition and R&R envisaged.	
	Lift Station-4. The site is vacant and located at Pettai Thiruthu, Ambedkar Nagar. The land belongs to TMC and classified as public toilet site (TS No 107, Block 2, Ward AC). New toilet is already constructed in the site. Old toilet block will be dismantled to construct LS. No land acquisition and R&R envisaged.	
	Lift Station 5. The site is located at Karuppanthurai near public toilet which is constructed by raising ground level. The land belongs to Public Works Department and classified as Tamirabarani River land (TS No 59, Block 5, Ward AM). Adequate land area is available for the construction of LS; however, NOC/EUP is required. No land acquisition and R&R envisaged.	
	Lift Station 6. The site is located Karaiyiruppu; along the narrow road and belongs to Revenue Department (TS No 40, Block 11, Ward B). NOC/EUP is required for the construction of LS; no land acquisition and R&R envisaged.	
	Lift Station 7. The site is located at Azhaganeri and belongs to Revenue Department (TS No 151, Block 6, Ward C). NOC/EUP is required for the construction of LS; no land acquisition and R&R envisaged.	No involuntary resettlement/Indigenous
	Lift Station 8. The site is located at Senthimanagalam and belongs to TMC. It is proposed to dismantle old public toilet and construct LS. Site is at the end of residential area and surrounded by agricultural lands. No land acquisition and R&R envisaged.	Peoples impacts

	Proposed Subproject Components	Scope of Land Acquisition and R&R	Summary
		Lift Station 9. The site is located Sindhupoonthurai and classified as TMC cremation ground (TS No 46, Block 2, Ward J). The site is adjacent to river, public toilet and cremation ground. Remaining area is sufficient for the construction of LS. No land acquisition and R&R envisaged.	No involuntary resettlement/Indigenous
		Lift Station 10. The site is located at Kailasapuram along the PWD road. A road side lifting station will be constructed. NOC/EUP is required for the construction of LS; no land acquisition and R&R envisaged.	
		Lift Station 11. The site is located at Meenakshipuram near public toilet. The land belongs to PWD and classified as Tamirabarani River land (TS No 803, Block 9, Ward AJ). LS will be constructed adjoining the public toilet. NOC/EUP is required for the construction of LS. No land acquisition and R&R envisaged.	
5	<u>House Service Connections</u> . Provision of house service connections with inspection chambers	Inspection chambers and house service connections will be provided within individual's property boundary. No land acquisition and R&R envisaged.	No involuntary resettlement/Indigenous Peoples impacts anticipated
6	Sewage Treatment Plant (STP). Utilizing existing STP facilities.	The existing STP at Ramayanpatti (STP I) of 24.2 mld capacity (WSP Technology) is proposed to be retained for West of Tamirabarani (Phase-II) area. A total area of around 183 acres is under TMC ownership at Ramayanpatti of which 65 acres is allocated for existing STP (not yet fully utilized).	No involuntary resettlement/Indigenous Peoples impacts anticipated

CMWSSB = Chennai Metropolitan Water Supply and Sewerage Board, CPCL = Chennai Petroleum Corporation Limited, DWC = double walled corrugated, EUP = enter upon permission, GCC = Greater Chennai Corporation, HR&CE= Hindu Religious & Charitable Endowment, mld = million liters per day, m = meter, NOC = no objection certificate, OHT = overhead tank, PWD = Public Works Department, ROW = right of way, R&R = resettlement and rehabilitation, SPS = Safeguard Policy Statement, STP = sewage treatment plant, TMC = Tirunelveli Municipal Corporation, UGT = underground tank Source: Tirunelveli UGSS DPR, TMC and site visits.

C. Socioeconomic Information and Profile

- 9. Transect walks identified a total of 17affected persons in Phase-II area whose business will be temporarily affected during pipe laying, as they carry their activities within/very close to ROW. These businesses are mainly (65%) tea/food/juice related stalls and the remaining (35%) sell other items like helmets, tyres etc. Some of the surveyed affected persons indicated that they sometimes take rounds in confined areas to sell their items though their place of vending is otherwise stationary/fixed. Almost all of them (79%) have movable structures while other affected persons sit on roads or have extended their activities on roads for selling their goods. Only two affected persons with kiosks may require shifting assistance. Structures that are extended on roads can be easily dismantled. A close to 35% of the affected persons with movable vending structures also indicated that they switch to other work/business seasonally and may not necessarily get affected during sewer laying if place of their business changes.
- 10. Street vending is quite a common practice in many cities of the state including Tirunelveli and close to 70% of the affected persons indicated that they are doing their business at present location for more than 10 years. An additional 12% indicated that they have this fixed location for more than five years while the remaining 18% said they have moved in respective places in last 3-5 years.
- 11. In terms of the socioeconomic background, a majority of these vendors appear to be poor. About 12% earn income below ₹2500 per month. More than 50% earn monthly income between ₹2,500-5,000. Average monthly income works out at ₹5,412 with minimum at ₹2,000 and maximum at ₹12,000.³ Considering work week of 6 days (26 days per month), average daily income is estimated at ₹130 for 13 below poverty line affected persons and ₹208 for all affected persons. The overall average is lower than the notified minimum wage rate at ₹643.
- 12. Only around 12% affected persons belong to general (upper) caste category while the remaining mainly belongs to other backward classes (OBC-82%). No scheduled tribes were identified during resettlement surveys. During site visits it was found that scheduled tribes in Tirunelveli do not show any distinct indigenous characteristics that are different than mainstream society. No women affected persons or women headed households (WHH)⁴ found during the survey. Total vulnerable affected persons comprise 12% of the total surveyed affected persons.
- 13. This resettlement plan will be updated road/alignment wise based on detailed measurement survey considering detailed design in sections ready for implementation and the revised resettlement plan will be submitted to the ADB for approval. A 100% census and socioeconomic survey will be undertaken during detailed measurement survey to register and document the status of affected persons within the subproject impact area. Any temporary impacts or costs incurred by affected persons will be identified through the detailed measurement survey (DMS) and compensated at replacement cost, in line with the principles of the resettlement Framework.

4 Household is considered women headed when she is the single bread earner of the family or earn most of the income for the family.

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³ As per data published by the Planning Commission, Government of India, in 2011-12, poverty line in urban Tami Nadu was ₹993 per capita per month. On adjusting for inflation, this works out to ₹1406 per capita per month in 2017, or a monthly household income of ₹5540 for BPL households, considering the average urban household size in the state per Census 2011. Hence, a majority of the identified potentially temporarily impacted persons are estimated to be below poverty line, based on limited data available.

Tea/Snacks/Juice

Tea/Snacks/Juice

Fruit/Vegetables

Other Businesses (Helmets/Tyre)

Figure 2: Type of Business



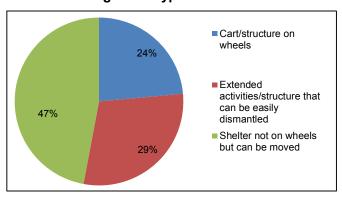
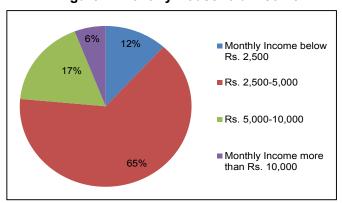


Figure 4: Monthly Household Income



D. Information Disclosure, Consultation and Participation

- 14. Consultation with the primary and secondary stakeholders is an important tool for successful preparation and implementation of resettlement plan. The key stakeholders consulted during subproject preparation, resettlement plan preparation and implementation, and program implementation include:
 - (i) Heads and members of households likely to be affected;
 - (ii) program beneficiaries, groups/clusters of affected persons;
 - (iii) Local voluntary organizations and community-based organizations (CBOs);
 - (iv) Government agencies and departments; and

- (v) Major project stakeholders, such as women, trader's associations, community-based organizations, etc.
- Types of consultations during project preparatory technical assistance (PPTA) stage are presented in Table 2. These include consultations during baseline surveys to integrate household's preferences into project design. Consultations with potentially affected persons were conducted during transect walks. The concerns expressed mainly included traffic disruptions and temporary impacts on livelihood, including duration of impact (Appendix 3). It was informed to surveyed potential affected persons that appropriate measures will be undertaken during construction to minimize impacts. (including scheduling of activities during the early morning and reducing construction activities during the rush hour). It was also informed that, if despite mitigation measures, there were any temporary impacts on livelihood; these would be compensated in accordance with the resettlement framework policy provisions. Further consultations will also include focus group discussions (FGDs) and structured census surveys parallel to detailed measurement survey in sections ready for implementation before the project implementation. These will be carried out by construction management and supervision consultant's (CMSC) social and resettlement safeguard expert (SRSE) who will work closely with PIU assistant safeguards officer (ASO) and program management unit (PMU) SPO. A citywide stakeholder consultation involving representatives from all stakeholder groups to brief them about the technical details of project and project implementation cycle; project benefits as well as adverse impacts envisaged during construction; environmental and social safeguards, gender inclusion, community participation aspects built into the project, etc. is proposed. Minutes of meeting will be added to the updated resettlement plan.
- 16. At this PPTA stage disclosure activities include dissemination/distribution of summary of resettlement framework and resettlement plan in local language to key stakeholders including affected persons. The approved resettlement framework/ resettlement plan (full documents) will also be disclosed on ADB and local government's websites and will be available in key local/state government offices. During the subproject implementation, construction schedules will be informed to all residents (including affected persons) prior to the commencement of pipe laying through signboards. The signboards will be in local language and will include at minimum: (i) section to be affected; (ii) start and end dates; (iii) information on traffic rerouting if any; and (iv) contact information for questions/grievances.

Table 2: Consultation and Disclosure Activities during Project Preparatory Technical Assistance Stage

		Responsible
Activities	Details	Agency
Preliminary awareness	City visits and series of meeting with key stakeholders	PPTA team
about the project activities	(ULB, TWADB, District Collector, etc., officials)	
(Completed)		
Baseline surveys	Sample household socioeconomic surveys to	PPTA team
	understand baseline infrastructure situation, problems	
(Completed)	faced in service delivery, household's willingness to get	
(connected to new systems and willingness to pay for it	
Profiling of potential	Undertake transect walks and screening of project	PPTA team
affected persons	impact area to identify potential affected persons and	
(Completed)	record their socioeconomic and business profile.	
City wide stakeholder	Dissemination of project related technical and other	PPTA team/
consultation	information to representatives of all key stakeholders	relevant ULBs
	(at one platform) and disclosure of summary of social	
	safeguard documents in local languages	

PPTA = project preparatory technical assistance, TWADB = Tamil Nadu Water Supply and Drainage Board, ULBs = urban local body.

- 17. Continued involvement of those affected by the subproject will be ensured. An intensive information dissemination and feedback campaign for affected persons will be conducted by the PIU from the time of resettlement plan preparation to implementation and monitoring. The proceedings of such campaigns shall be documented. All the comments made and concerns raised by the affected persons will be documented in the sub-project records and summarized in sub-project monitoring reports.
- 18. During revised resettlement plan preparation, ULB/PIU will be responsible for issuing various required public notices. For the temporary impacts the date/period of socioeconomic surveys will be considered as cut-off date. Cut-off-date for temporary impacts will be communicated to affected persons through CMSC, 2-3 days before the start of survey (and not in much advance) and also by putting up printed information in project affected area at some common advertisement place. Similarly, list of affected persons will be published at common places with contact details of CMSC/PIU officials. The list will be put up area wise and at a time for the entire city. This will avoid affected persons moving into other areas and to identify any duplication of affected persons. CMSC will facilitate affected persons to approach lists in their area and get confirmation on any duplication, missing/absent affected persons.
- 19. Additionally, draft/final resettlement framework/resettlement plan will be made available in ULB/PIU and PMU offices. The resettlement framework and resettlement plan will be disclosed in ADB's website and the ULB/PMU websites. Further, final resettlement pans will be disclosed in ADB's website, PMU websites, and PIU or ULB websites; and information dissemination, through subproject specific leaflets and public announcements, and consultation will continue throughout program implementation. The project leaflets will be distributed by governance improvement and awareness consultant (GIAC)/ CMSC to the affected communities for their information. A sample project information dissemination leaflet is attached in Appendix 6.

E. Grievance Redress Mechanism

- 20. A common grievance redress mechanism (GRM) will be in place to redress social, environmental or any other project related grievances. The GRM described below has been developed in consultation with stakeholders. Public awareness campaign will be conducted to ensure that awareness on the project and its grievance redress procedures is generated. The campaign will ensure that the poor, vulnerable and others are made aware of grievance redress procedures and entitlements per project entitlement matrix, and PMU and concerned PIUs will ensure that their grievances are addressed.
- 21. Affected persons will have the flexibility of conveying grievances/suggestions by dropping grievance redress/suggestion forms in complaints/suggestion boxes or through telephone hotlines at accessible locations, by e-mail, by post, or by writing in complaints register in ULB or PIU or implementing agency offices. PIU Safeguards officer will have the responsibility for timely grievance redress on safeguards and gender issues and for registration of grievances, related disclosure, and communication with the aggrieved party.
- 22. GRM provides an accessible, inclusive, gender-sensitive and culturally appropriate platform for receiving and facilitating resolution of affected persons' grievances related to the project. A two-tier grievance redress mechanism is conceived, one, at project level and another, beyond project level. For the project level GRM, a GRC will be established in PIUs; Safeguards officer and Social and Gender Officer will be responsible for creating awareness among affected communities and help them through the process of grievance redress, recording and registering grievances of non-literate affected persons.

- 23. GRM aims to provide a time-bound and transparent mechanism to voice and resolve social and environmental concerns linked to the project. All grievances major or minor, will be registered. Documentation of the name of the complainant, date of receipt of the complaint, address/contact details of the person, location of the problem area, and how the problem was resolved will be undertaken. PIU will also be responsible for follow-through for each grievance, periodic information dissemination to complainants on the status of their grievance and recording their feedback (satisfaction/dissatisfaction and suggestions).
- 24. In case of grievances that are immediate and urgent in the perception of the complainant, the contractor, and supervision personnel of the CMSC and PIU will resolve the issue on site, and any issue that is not resolved at this level will be dealt at PIU head level for immediate resolution. Should the PIU fail to resolve any grievance within the stipulated time period, the unresolved grievances will be taken up at ULB level. In the event that certain grievances cannot be resolved even at ULB level, particularly in matters related to land purchase/acquisition, payment of compensation, environmental pollution etc., they will be referred to the district level GRC headed by the District Collector. Any issue which requires higher than district level inter-departmental coordination or grievance redress, will be referred to the state level Steering Committee.
- 25. GRC will meet every month (if there are pending, registered grievances), determine the merit of each grievance, and resolve grievances within specified time upon receiving the complaint-failing which the grievance will be addressed by the state-level Steering Committee. The Steering Committee will resolve escalated/unresolved grievances received.
- 26. **Composition of Grievance Redress Committee**. GRC will be headed by the District Collector, and members include: ULB/PIU head, Safeguards Officer of PIU, representative of TNPCB, one elected representative/prominent citizen from the area, and a representative of affected community. GRC must have a women member.
- 27. **State level steering committee** will include Commissioner of Municipal Administration as chair, member include managing directors of Tamil Nadu Urban Infrastructure Financial Services Ltd. (TNUIFSL), Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB), TWAD Board and others as applicable.
- 28. **Areas of Jurisdiction**. The areas of jurisdiction of the GRC, headed by the District Magistrate will be (i) all locations or sites within the district where subproject facilities are proposed, or (ii) their areas of influence within the District. The Steering Committee will have jurisdictional authority across the state (i.e., areas of influence of subproject facilities beyond district boundaries, if any).
- 29. The multi-tier GRM for the project is outlined below (Figure 5), each tier having time-bound schedules and with responsible persons identified to address grievances and seek appropriate persons' advice at each stage, as required. The GRC will continue to function throughout the project duration. The implementing agencies/ULBs shall issue notifications to establish the respective PIU level grievance redress cells, with details of composition, process of grievance redress to be followed, and time limit for grievance redress at each level.
 - (i) **1st level grievance**. The contractor and CMSC supervision personnel and PIU supervision personnel can immediately resolve issues on-site in consultation with each other, and will be required to do so within 3 days of receipt of a complaint/grievance.
 - (ii) **2nd level grievance**. All grievances that cannot be redressed within 3 days at field/ward level will be brought to the notice of Social Safeguards Officer (SSO) of PIU. PIU will resolve the grievance within 7 days of receipt of

- compliance/grievance in discussion with the CMSC and the Contractor. PIU SSO will be supported by the CMSC SSS at this stage.
- (iii) **3rd level grievance**. All the grievances that are not addressed by PIU within 7 days of receipt will be brought to the notice of the Town Level Committee (TLC), of which ULB Commissioner will be the Chairperson, and will be assisted by the concerned city level engineers. TLC will meet twice a month and determine the merit of each grievance brought to the committee. The PIU SSO will be responsible to see through the process of redressal of each grievance. The TLC will resolve the grievance within 15 days of receiving the complaint.
- (iv) 4th level grievance. All grievances that are not addressed by the TLC within 15 days, and which require the District Collector's intervention, will be escalated to the district level Grievance Redress Committee (GRC), chaired by the District Collector. The district level GRC will have the District Collector as chair, PIU head as Convenor, and Safeguard Officers of the PIU, representative of TNPCB, one elected representative, one prominent person/member of the community, and a representative of affected persons/community as members. At least one member of the GRC will be a woman. The GRC will resolve the grievance within 30 days of registration.
- (v) **5th level grievance**. Any grievance that remains unresolved by the GRC will be escalated to the state level steering committee.

13

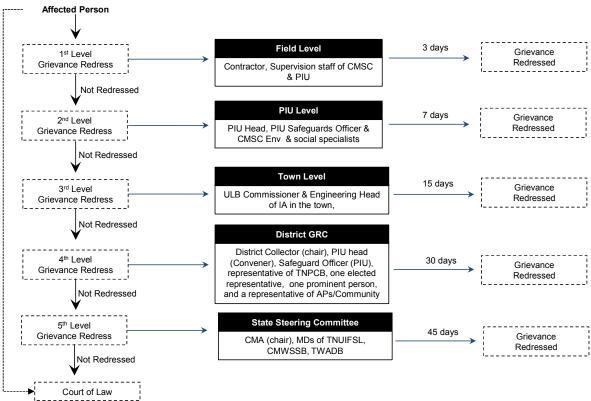


Figure 5: Grievance Redress Process

- 30. The project GRM notwithstanding, an aggrieved person shall have access to the country's legal system at any stage, and accessing the country's legal system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM. In case of grievance related to land acquisition, resettlement and rehabilitation,⁵ the affected persons will have to approach a legal body/court specially proposed under RFCTLARR, 2013; Land Acquisition, Rehabilitation and Resettlement Authority (LARRA).
- 31. In the event that the established GRM is not in a position to resolve the issue, the affected person also can use the ADB Accountability Mechanism through directly contacting (in writing) the Complaint Receiving Officer at ADB headquarters or the ADB India Resident Mission (INRM). Before submitting a complaint to the Accountability Mechanism, it is necessary that affected persons make a good faith effort to solve the problem by working with the concerned ADB operations department and/or INRM. Only after doing that, and if they are still dissatisfied, will the Accountability Mechanism consider the compliant eligible for review. The complaint can be submitted in any of the official languages of ADB's developing member countries. The ADB Accountability Mechanism information will be included in the project-relevant information to be distributed to the affected communities, as part of the project GRM.
- 32. **Recordkeeping**. Records of all grievances received, including contact details of complainant, complaint received date, nature of grievance, agreed corrective actions and the date these were effected and final outcome will be kept by ULB/PIU (with the support of CMSC) and submitted to PMU.

⁵ The Authority admits grievance only with reference to the land acquisition and R&R issues under the RFCTLARR, 2013.

- 33. Information dissemination methods of the GRM. The PIU, assisted by CMSC will be responsible for information dissemination to affected persons and general public in the project area on grievance redress mechanism. Public awareness campaign will be conducted to ensure that awareness on the project and its grievance redress procedures is generated. The campaign will ensure that the poor, vulnerable and others are made aware of grievance redress procedures and entitlements per this resettlement framework including contact details of officials/members of GRC, where/ how to register grievance, various stages of grievance redress process, time likely to be taken for redress of minor and major grievances, etc. Grievances received and responses provided will be documented and reported back to the affected persons. The number of grievances recorded and resolved and the outcomes will be displayed/disclosed in the PIU, offices, ULB notice boards and on the web, as well as reported in the semi-annual environmental and social monitoring reports to be submitted to ADB. A sample grievance registration form has been attached in Appendix 6.
- 34. **Periodic review and documentation of lessons learned.** The PMU will periodically review the functioning of the GRM and record information on the effectiveness of the mechanism, especially on the PIU's ability to prevent and address grievances.
- 35. **Costs.**All costs involved in resolving the complaints (meetings, consultations, communication and reporting/information dissemination) will be borne by the respective PIU.

F. Legal Framework

- 36. The policy framework and entitlements for the TNUFIP are based on:
 - The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act (RFCTLARR), 2013 and RFCTLARR GOTN Notified Rules, 2017;
 - (ii) Environmental and Social Management Framework (ESMF) of TNUIFSL;
 - (iii) ADB's Safeguard Policy Statement (SPS), 2009; and
 - (iv) The agreed entitlement matrix and resettlement framework.
- 37. The salient features of Government and ADB polices are summarized below. The resettlement principles and procedures to be followed for social safeguards under TNUIFP are detailed out in the Resettlement Framework document. In case of discrepancy between the policies of ADB and the government, gap-filling measures will be adopted to bridge the discrepancies. Core involuntary resettlement principles for the TNUFIP to be followed for each sub-project, including sample subprojects are:
 - screening of the project to identify involuntary resettlement impacts and risks.
 Minimizing and avoiding land acquisition and resettlement impacts of each subproject by exploring all viable alternative designs;
 - (ii) where unavoidable, time-bound resettlement plans be prepared and affected persons will be assisted in improving or at least regaining their pre-program standard of living;
 - (iii) full information and close consultations with affected persons including consultation with affected persons on compensation, disclosure of resettlement information to affected persons, and participation of affected persons in planning and implementing subprojects will be ensured; Disclose a draft resettlement plan, including documentation of the consultation process in a timely manner to affected persons and other stakeholders. Disclose the final resettlement plan and other documents such as the monitoring reports to affected persons and other stakeholders;
 - (iv) Where the resettlement impacts are unavoidable, the displaced persons should be assisted in improving or at least regaining their standard of living;

- (v) Vulnerable groups comprising below poverty line households, including female-headed households, disabled persons, elderly, children, landless, non-titled households with no tenure security, and schedule castes and scheduled tribe households will be given special assistance;
- (vi) payment of compensation to affected persons including non-titled persons (e.g., informal dwellers/squatters, and encroachers) for acquired assets at replacement cost;
- (vii) payment of compensation and resettlement assistance prior to the contractor taking physical acquisition of the land and prior to the commencement of any construction activities:
- (viii) provision of income restoration and rehabilitation; and
- (ix) establishment of appropriate grievance redress mechanisms.
- 38. A detailed description of each compensation measure and assistance is provided in the Entitlement Matrix attached in resettlement framework while a Tirunelveli subproject specific/ applicable entitlement matrix is given in Table 3. Affected persons will be entitled to a combination of compensation measures and resettlement assistance, depending on the nature of ownership rights of lost assets and scope of the impact, including social and economic vulnerability of the affected persons.

G. Entitlements, Assistance and Benefits

- 39. Potential temporary economic impacts are identified for Tirunelveli subproject ranging from 20-30 days of construction time for each road stretch of about 500m. In majority of the roads impacts will be avoided as the sewer network will be laid in the middle of the road. In wider and divided roads where work needs to be undertaken on both sides of the road, impacts can be avoided/minimized by taking construction on one side of the road at a time. In such cases temporarily affected persons will be assisted in moving to the other side of the road and returning their temporary structures to the original location after construction is completed. Where moving is not required, access will be ensured by the contractor through measures prescribed in environmental management plan (EMP). During implementation if more number of affected persons are identified at one place (e.g. vegetable market) then an alternate place in the vicinity will also be identified so that they can continue with their livelihood activities.
- 40. Potentially affected persons that use movable stalls (Appendix 3) can be shifted to nearby locations if properly informed. Advance notice regarding construction activities, including duration and type of disruption provided to temporarily affected persons once contractor's work plans are finalized, with minimum 7 working days. If required, they will also be assisted to temporarily shift for continued economic activity. For example, they will be assisted to shift to the other side of the road or nearby areas where there is no construction. Ensuring there is no income or access loss during sub-project construction is the responsibility of contractors.

Table 3: Entitlement Matrix⁶

	Impact		
No.	Category	Entitlements	Explanations
Unforeseen Impacts ^a			
Α	Unforeseen	Unforeseen impacts encountered	-
	Impacts	during implementation will be	
		addressed in accordance with the	
		principles of this resettlement	

⁶ Any changes required in the Entitlement Matrix pursuant to any Amendments in the LARR 2013 Act and Rules notified by the GOTN will be incorporated with the concurrence of the ADB. All cash allowance in the EM will be revised at the rate of 5% per annum starting from financial year 2019-20.

No.	Impact Category	Entitlements	Explanations
		framework.	
Tem	porary Economic	Impacts during implementation	
Α	Temporary	Compensation for loss of income for	Advance notice provided to
	economic	the duration of impact based on net	temporarily affected persons once
	impacts	income worked out as per IT returns or	contractor's work plans are finalized
		based on notified minimum wage rates,	with minimum 7 working days.
		whichever is higher.	

^a If unanticipated involuntary resettlement impacts are found during implementation, a social impact assessment will be conducted and the resettlement plan updated or a new resettlement plan prepared, in accordance with ADB SPS 2009.

- 41. If construction activities result in unavoidable livelihood disruption, compensation for lost income based on the net income or as per notified minimum wage rates, whichever is higher will be provided. Vulnerable affected persons will be given priority in project construction employment. Compensation and assistance to temporarily affected persons will be made prior to their shifting from original place of business (if required) and before start of civil works. Since most affected households have moveable stalls, ID cards should be distributed minimum of 7 days before compensation. In summary, temporarily affected persons will be provided with:
 - Advance notice regarding construction activities, including duration and type of disruption provided to temporarily affected persons once contractor's work plans are finalized, with minimum 7 working days;
 - (ii) Contractor's actions to ensure there is no income/access loss consistent with the initial environmental examination. This includes: leaving spaces for access between mounds of soil, providing walkways and metal sheets to maintain access across trenches for people and vehicles where required, increased workforces to finish work in areas with impacts on access, timing of works to reduce disruption during business hours, phased construction schedule and working one segment at a time and one side of the road at a time;
 - (iii) Assistance to mobile vendors/hawkers to temporarily shift for continued economic activity. For example, assistance to shift to the other side of the road where there is no construction; and
 - (iv) For construction activities involving unavoidable livelihood disruption (temporary income loss), compensation for lost income for the period of disruption.

H. Resettlement Budget and Financing Plan

42. The resettlement budget for Tirunelveli subproject is estimated at ₹0.80million. The costs are indicative estimates to be confirmed post detailed measurement survey based on detailed design, and comprise GRM and consultation costs. Resettlement plan costs will be confirmed during detailed project preparation/implementation.

Table 4: Resettlement Cost

	Details	No.		Unit Cost	Total Cost (₹)
1	Temporary Income Loss				
	Provisional sum for compensation of temporary income loss at notified minimum wage rate ^a for 17affected persons for 25 days ^b	17	25 days	643	273,275
2	Surveys, consultations, grievances and awareness				
	DMS Survey & updating for Resettlement Plan ^c		LS		200,000
	Consultation, grievance redress, disclosured		LS		250,000
	Sub-total				723,275
	Contingency @ 10%				72,328
	Grand Total (₹)				795,603

Note:

Weblink: http://cms.tn.gov.in/sites/default/files/go/labemp_e_62_2017_2D_pdf.pdf.

43. All land acquisition and resettlement costs will be borne by the government/ULB/PIU. Under TNUFIP, it is suggested that payment will be directly made by PIU to affected persons. The CMSC SRSE/GIAC will be involved in facilitating the disbursement process, and will facilitate opening bank accounts for the affected persons (both permanent and temporary loses) who do not have bank accounts.

I. Institutional Arrangements and Implementation Schedule

The Municipal Administration and Water Supply Department (MAWS) acting through the Tamil Nadu Urban Infrastructure Financial Services Ltd. (TNUIFSL) will be the state-level executing agency. A program steering committee, headed by Principal Secretary, MAWS, GOTN, will provide overall guidance and strategic directions to the program. A PMU for TNUFIP, headed by the Managing Director (MD), TNUIFSL acting as Program Director will be established within TNUIFSL for overall management, planning, implementing, monitoring, reporting, and coordinating TNUFIP. The Commissioner of Municipal Administration will act as the Deputy Program Director in the PMU. The project urban local bodies (ULBs), represented by respective Municipal Commissioners, will be the implementing agencies (IAs) for works in cities/towns and will establish program implementing units (PIUs) headed by a municipal engineer as full-time Project Manager. For sewerage and water supply works in Chennai, CMWSSB, represented by its Managing Director, will be the IA and establish a PIU headed by a superintending engineer as full-time Project Manager. PIUs will be responsible for overseeing implementation of the various projects on a day-to-day basis. ULBs under the Program with less project implementation capacity, may utilize implementation support from the Tamil Nadu Water and Drainage Board (TWADB) to act as PIU. The Project Managers of the PIUs will be supported by technical, financial, safeguards and administrative staff from a Contract Management and Supervision Consultant (CMSC)

^a Minimum wage rate estimated based on:

^b For the purpose of budget preparation in the draft resettlement plan, notified minimum wage rate is used, as per the entitlement matrix. Costs in the updated resettlement plan will be based on a comparison of census and socio-economic survey data on income with the prevailing notified minimum wage rate at the time of compensation payment.

^c Detailed measurement surveys (DMS) will be conducted in sections ready for implementation, based on detailed design to confirm impacts.

^d The allocation for disclosure includes cost of translation of the resettlement plan to Tamil.

recruited by TNUIFSL. For the capacity development and incentivized reforms components, CMA acting through its Commissioner, will be responsible for carrying out these activities and establish a PIU.

- 45. A Program Steering Committee, headed by Principal Secretary, MAWS, and Members comprises of: (i) Managing Director, TNUIFSL (Convener); (ii) Commissioner of Municipal Administration; (iii) Managing Director, CMWSSB; (iv) Managing Director, TWADB; and (v) Managing Director, TUFIDCO.
- Program Management Unit. PMU will (i) monitor the Project and have overall 46. responsibility for ensuring adoption and compliance of resettlement framework and ADBs SPS. Additionally, PMU will monitor PIUs for: (i) identifying and preparing subprojects; (ii) reviewing resettlement plans prepared by PIU/ULB; (iii) ensure adoption and compliance of resettlement framework in land acquisition and other safeguards; (iv) guide in awareness campaigns and participation programs; (v) organize and operate the program performance monitoring system; (vi) prepare and submit timely reports to ADB; and (vii) design and organize capacity building programs. PMU will be assisted by CMSC in managing and quiding the overall implementation of the Program, Social Project Officer (SPO) of PMU will responsible for all land acquisition and resettlement matters from PMU side. PMU SPO will perform responsibilities like: (i) addressing social safeguards issues; (ii) implementing the resettlement framework; (iii) report to Projects Head with respect to land acquisition and resettlement plan implementation in the subprojects; (iv) monitoring physical and financial progress on land acquisition activities and updating the PMU on the same; (v) monitoring implementation of safeguards plans (resettlement plan); (vi) guiding the PIUs as and when necessary; and (vii) endorsing and submitting periodic monitoring reports⁷.
- 47. **Program Implementation Unit.**8 PIUs will be established in each of the participating ULBs within their structure or at TWADB and in CMWSSB. For Tirunelveli UGSS subproject PIU will be established at ULB supported by CMSC. PIU ASO will implement social safeguards at the PIU level. The PIUs will be responsible for implementation of the resettlement plans. PIUs will undertake internal monitoring and supervision and record observations throughout the project period to ensure that the safeguards and mitigation measures are provided as intended. PIUs will be responsible for: (i) conduct briefing to contractors on safeguards requirements including GRM; (ii) implementing and monitoring safeguards compliance activities, public relations activities, gender mainstreaming activities, and community participation activities; (iii) coordinating with district administration and GIAC for land acquisition and R&R aspects and addressing any problems and/or delays; (iv) monitoring physical and financial progress on land acquisition and R&R activities; (v) organizing monthly meetings with the PIU to review the progress on R&R; and (vi) share all reports relating to land acquisition, alienation, R&R activities etc. and status to PMU.
- 48. **Construction, Management and Supervision Consultant**. The implementing agency will be assisted by a CMSC social and resettlement safeguards expert (SRSE). The SRSE will (i) based on final designs, carry out census and socio-economic surveys/verification surveys for the affected people and update resettlement plan in line with

⁷ The monitoring report will focus on the progress of implementation of the IEE/EIA and EARF, RP/RF and IPP/IPF, issues encountered and measures adopted, follow-up actions required, if any, as well as the status of compliance with subproject selection criteria and relevant loan covenants.

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⁸ If the subproject triggers new LARR, PIU will facilitate land acquisition through District Collector and will provide all details of land acquisition to CMSC SSE/PMU. CMSC SSE will incorporate the same in Resettlement Plan and check its compliance with resettlement framework/ADB SPS 2009 to make necessary additions (if any). PIU will bear the cost of any deviations in the compensation etc. to comply with Resettlement Framework/ADB SPS 2009. Government procedures under land acquisition act can run parallel even though under ADB project required surveys/preparation of RP will be undertaken. ADB project need to wait for the outcomes of government procedures to finalize the compensation and disbursement of payments.

the TNUFIP resettlement framework; (ii) identify requirement for any enter upon permissions (EUPs)/No Objection Certificates (NOCs) for subproject sites and assist PIUs in obtaining the same prior to start of civil works. Prepare any additional safeguard documentation, if required, such as due diligence reports; (iii) assist PIU in day-to-day implementation of resettlement plan activities and ensure contractors comply with conditions of resettlement framework/resettlement plan; (iv) take proactive action to anticipate and avoid delays in implementation, and ensure gender equality and social inclusion during implementation; (v) assist PIU in conducting public consultation and disclosure activities; (vi) Assist PIU in preparing periodic social safeguard monitoring reports as per Project Administration Manual requirements; (vii) under guidance of GIAC, assist PIU in establishing a system and indicators, focusing on gender and vulnerable households, to monitor social safeguards including GRM activities; (viii) support GIAC in conducting training focused on involuntary resettlement safeguards implementation capacity of the PIUs; and (ix) assistance to PIU/PMU in any other social safeguard related tasks.

- 49. **Governance Improvement and Awareness Consultants.** The scope of service will include, but not be restricted to, implementation, monitoring and reporting of the community awareness and participation plan (CAPP); gender action plan, and monitor and guide resettlement plan implementation and lead involuntary resettlement trainings. Specific tasks related to social safeguards include: (i) monitor and guide PIUs on resettlement plan implementation, with particular reference to significant impacts; (ii) lead involuntary resettlement training and capacity building on involuntary resettlement/ indigenous people safeguards to project PIUs and CMA; (iii) guide PIUs to set up grievance redress mechanisms, record keeping and feedback mechanisms; and (iv) guide PIUs in keeping detailed records of progress and establishing monitoring and reporting systems for resettlement. GIAC will also provide guidance to PIUs on specific requirements for indigenous peoples plan implementation, if Safeguard Requirements 3 triggered.
- 50. To build the institutional capacity for resettlement plan preparation and implementation, following key training activities will be undertaken (Table 5). The cost of trainings for all project cities and staff will be borne by Project's capacity building program by PMU. The detailed cost and specific modules will be customized for the available skill set after assessing the capabilities of the target participants and the requirements of the project.

Table 5: Indicative Training Needs Assessment

Description	Target Participants and Venue
Introduction and Sensitization to Social/Involuntary Resettlement/Indigenous Peoples Safeguards (1 day) - ADB Safeguards Policy Statement - Government of India and Tamil Nadu applicable social safeguard acts - Incorporation of social/resettlement components under EMP into the project design and contracts	All staff and consultants involved in the project
- Monitoring, reporting and corrective action planning	At PMU, Chennai First year of the launch of TNUFIP.
2. Resettlement Plan implementation (2 days; 2 times during implementation with interval of 1 year in-between)	All staff and consultants involved in the
Roles and responsibilitiesResettlement Plan components and stages in implementationConstruction schedules and timelines	subproject
- Public relations- Consultations- Grievance redress	All contractors prior to award of contract

Description	Target Participants and Venue
Monitoring and corrective action planning Reporting and disclosure	At each PIU
Timely documentation Experiences and best practices sharing (1 day)	All staff and consultants
- Experiences on Resettlement Plan implementation - Issues and challenges - Best practices followed	involved in the project
	All contractors All consultants At PMU Chennai

ADB = Asian Development Bank, EMP = environmental management plan, PIU = program implementation unit, PMU = program management unit, TNUFIP = Tamil Nadu Urban Flagship Investment Program

Table 6: Institutional Roles and Responsibilities

Activity Activity	Responsible Agency			
Subproject Initiation Stage				
Finalization of sites for sub-projects	PIU			
Disclosure of proposed land acquisition and sub-project details by	PIU			
issuing Public Notice				
Meetings at community/household level with affected persons	PIU/CMSC			
Resettlement Plan Preparation and Updating Stage				
Conducting Census of all affected persons	PIU/ULB			
Conducting FGDs/meetings/workshops	PIU/ULB			
Computation of replacement values of land/properties proposed for	PIU/ULB and as per			
acquisition and for associated assets	RFCTLARR 2013 for Land			
	Acquisition			
Categorization of affected persons for finalizing entitlements	PIU/ULB			
Formulating compensation and rehabilitation measures	PIU/ULB			
Conducting discussions/meetings/workshops with affected persons	PIU/ULB			
and other stakeholders				
Fixing compensation for land/property with titleholders	As per RFCTLARR 2013 for			
	land acquisition			
Finalizing entitlements and rehabilitation packages	PIU/ULB			
Disclosure of resettlement plan	PIU			
Approval of resettlement plan	PMU/ ADB			
Sale deed execution and payment	PIU/ULB			
Taking possession of land	PIU/ULB			
Resettlement Plan Implementation Stage				
Implementation of proposed rehabilitation measures	PIU/CMSC			
Consultations with affected persons during rehabilitation activities	PIU/ CMSC			
Grievances redressal	CMSC/PIU/GRC/PMU			
Internal monitoring	PMU/PIU/ULB			

ADB = Asian Development Bank, CMSC = construction, management, and supervision consultant, CMWSSB = Chennai Metro Water Supply and Sewerage Board, FGD = focus group discussion, GRC = grievance redress committee, PIU = program implementation unit, PMU = program management unit, RFCTLARR = The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013

51. **Implementation of Resettlement Plan**. All proposed subproject utility sites will be secured prior to the contract award and start of civil works. Prior to contract award, for all TMC/government lands, PIU will confirm that there are no legacy issues related to acquisition of the sites (i.e., year in which land was acquired/obtained, whether acquired in anticipation of ADB funding, whether all compensation has been paid and accepted, and whether there are any pending legal/other issues). This could be in the form of self-certification by the owner department/TMC. This will be submitted to ADB through PMU

before contract award and start of civil works. The resettlement plan will also be disclosed in English and its Summary in Tamil prior to contract award.

Table 7: Schedule of Resettlement Implementation

	2017	:	2018	2019	2020	2021	2022	2023
	Q4	H1	H2					
Setting up of PIUs								
Appointment of CMSC								
Appointment of GIAC								
Setting up of project level GRM								
Awareness generation among affected persons on entitlements, impact avoidance and mitigation measures to be implemented by the contractor Conduct detailed measurement surveys, census surveys and								
issuance of ID cards in sections ready for construction								
Identify Vulnerable affected persons, if any*								
Update draft Due Diligence Report								
Update draft Resettlement Plan to reflect surveys, consultations, design changes, and due diligence results								
Consultations and disclosure								
Review and approval of updated Resettlement Plan (PMU and ADB)								
Training/capacity building of PMU and PIU safeguards officers, engineers and other staff, DSISC supervision staff and contractor's staff								
Payment of compensation								
Handover of sites and alignments to contractors								
Start of civil works							1	
Internal monitoring, including surveys of affected persons on entitlements, satisfaction surveys								
Repair/reconstruction of affected facilities, structures, utilities, if any				Immediately, in consultation with other departments, as required				

ADB = Asian Development Bank, GIAC = government improvement and awareness consultant, GRM = grievance redress mechanism, PIU = program implementation unit, PMU = program management unit, CMSC = construction, management, and supervision consultant.

^{*} The start date of census will be the cut-off date for non-titled affected persons.

^{**} The resettlement plan will be updated based on final detailed design and affected person census and surveys.

^{***} Endorsement and disclosure of final resettlement plans consistent with the resettlement framework to be undertaken

J. Monitoring and Reporting

52. Resettlement plan implementation will be closely monitored by the PMU. PIU will prepare monthly progress reports on implementation of resettlement plan and submit to PMU, documenting actual achievements against targets fixed and identifying reasons for shortfalls, if any. These reports will feed into the overall monitoring reports for the TNUFIP which will be generated every quarter for the first year of implementation and bi-annually thereafter. Details to be covered under internal monitoring are elaborated in resettlement framework.

DETAILS OF ROADS/STREETS SCREENED UNDER RESETTLEMENT SURVEY

	TIRUNELVELI CORPORATION	
WARD NO.	THATCHANALLUR ZONE	Res/Com/Mix
	STREET NAME	
WD-01	CHITHAMBARA NAGAR COLONY	Residence
WD-01	MADURAI STREET (GANAPATHI MILL COLONY, UNAVOO MILL COLONY)	Mixed
WD-01	PERIYA AMMAN KOIL STREET	Residence
WD-01	SANKARAN KOIL ROAD EXTENSION SIDE	Residence
WD-01	TIRUNELVELI ROAD NORTH SIDE, SOUTH SIDE	Mixed
WD-01	VALAJAPETTAI NORTH STREET	Residence
WD-01	CHENAIAR STREET	Residence
WD-01	VALAJA PETTAI MIDDLE STREET	Residence
WD-01	MUTHU MARIAMMAN KOVIL STREET	Residence
WD-01	DURGAIAMMAN KOVIL STREET	Residence
WD-01	PAUL KATTALAI NORTH STREET	Residence
WD-01	SINIAPPAN THIRUTHU	Residence
WD-01	SINIAPPAN THIRUTHU NORTH STREET	Residence
WD-01	SINIAPPAN THIRUTHU MIDDLE STREET	Residence
WD-01	SINIAPPAN THIRUTHU WEST STREET	Residence
WD-01	SINIAPPAN THIRUTHU PALPANNAI STREET	Residence
WD-01	EGGALIAMMAN KOVIL STREET	Residence
WD-01	DENEER KULAM NORTH STREET	Residence
WD-01	KRISHNAN KOVIL STREET	Residence
WD-01	KRISHNAN KOVIL STREET SOUTH	Residence
WD-01	DENEERKULAM KEELAMEL CROSS STREET	Residence
WD-01	PAUL KATTALAI SOUTH STREET	Residence
WD-01	DENEERKULAM SOUTH STREET	Residence
WD-01	DURGAI AMMAN KOVIL STREET	Residence
WD-01	DENEERKULAM SOUTH STREET	Residence
WD-01	BAJANAIMADA STREET	Residence
WD-01	DENEERKULAM MIDDLE STREET	Residence
WD-01	MADURAI ROAD (1)	Commercial
WD-01	SEENIAPPAN SOUTH STREET	Residence
WD-01	CHATHIRAM VINAYAGAR STREET	Residence
WD-01	C.V.NORTH STREET	Residence
WD-01	PUTHUKULAM VINAYAKAR STREET	Residence
WD-01	CHATRAM PUTHUKULAM VINAYAGAR KOVIL STREET	Residence
WD-01	CHATHIRAM PUTHUKULAM	Residence
WD-01	C.V.VANNAKUDI STREET.	Residence
WD-01	SUNDARA VINAYAGAR KOIL STREET	Residence
WD-01	GRAMA SAVADI STREET	Residence
WD-01	CHATHIRAM PUTHUKULAM 2	Residence
WD-01	C.V.KOIL MIDDLE STREET	Residence
WD-01	PUDUKULAM NEW COLONY	Residence
WD-01	THENEERKULAM NORTH	Residence
WD-01	THENEERKULAM NEW STREET	Residence
WD-01	TOWN CHAVADI STREET	Residence

	TIRUNELVELI CORPORATION	
WARD NO.	THATCHANALLUR ZONE	Res/Com/Mix
	STREET NAME	
WD-01	CHATRAM PUTHUKULAM NORTH STREET	Residence
WD-01	THENEERKULAM EAST STREET	Residence
WD-01	THENEERKULAM STREET	Residence
WD-01	THENEERKULAM SOUTH STREET	Residence
WD-01	THENEERKULAM WEST STREET	Residence
WD-01	THENEERKULAM MIDDLE STREET	Residence
WD-01	INDIA CEMENTS OFFICER	Residence
WD-01	GANDHI SILAI STREET	Residence
WD-01	S.N.HIGH ROAD SOUTH	Commercial
WD-01	INDIRA NAGAR	Residence
WD-01	SELVAVIGNESH NAGAR	Residence
WD-01	CHATRAM PUTHUKULAM VANNAKUDI STREET	Residence
WD-01	GOKUL NAGAR	Residence
WD-01	NAL MAIAPPAR NAGAR	Residence
WD-01	CIDAMBARA NAGAR	Residence
WD-01	THENNERKULAM ILLATHAR STREET	Residence
WD-01	THENNEERKULAM LANE STREET	Residence
WD-01	KRISHNAN KOVIL NORTH STREET	Residence
WD-01	CITHI VINAYAGAR KOVIL NORTH STREET	Residence
WD-01	INDIA CEMENT OFFICERS COLONY	Residence
WD-01	KANDIAPERI	Residence
WD-01	CHATTIRAM PUDU KULAM NORTH STREET	Residence
WD-01	CHATRAM PUTHUKULAM HARIJAN SOUTH STREET	Residence
WD-01	GANTHI CILAI STREET	Residence
WD-01	UTCHI MAHALI AMMAN KOIL STREET	Residence
WD-01	THENEERKULAM MUDUKKU STREET	Residence
WD-01	CHATRAM PUTHUKULAM MIDDLE STREET	Residence
WD-01	CHATRAM PUTHUKULAM 1ST SOUTH STREET	Residence
WD-02	AZHAGANERI HARIJANA NORTH STREET	Residence
WD-02	SUNDARAPURAM MIDDLE STREET	Residence
WD-02	SUNDARAPURAM SOUTH NORTH SIDE	Residence
WD-02	SUNDARAPURAM KEELA MELA IST MIDDLE STREET	Residence
WD-02	SUNDARAPURAM KEELA MELA IIND MIDDLE STREET	Residence
WD-02	SUNDARAPURAM MELA NORTH STREET	Residence
WD-02	CHETTIKULAM KEELAGARAI HARIJANA STREET	Residence
WD-02	KEELAGARAI	Residence
WD-02	MELAGARAI HARIJANA MIDDLE STREET	Residence
WD-02	MELAGARAI HARIJANA SOUTH STREET	Residence
WD-02	MELAGARAI HARIJANA NORTH STREET	Residence
WD-02	AZHAGANERI MARAVAR WEST STREET	
WD-02	NADAR WEST STREET	Residence Residence
WD-02	MELAGARAI BYEPASS ROAD	
WD-02	NADAR EAST STREET	Commercial
WD-02	GRANT MIDDLE STREET	Residence Residence

	TIRUNELVELI CORPORATION	
WARD NO.	WARD NO. THATCHANALLUR ZONE	
	STREET NAME	
WD-02	DISLARY STREET	Residence
WD-02	DEVAR STREET	Residence
WD-02	UTCHIMAHAZHIAMMAN STREET	Residence
WD-02	PILLAIAR KOVIL STREET	Residence
WD-02	PANDARAKUDI STREET	Residence
WD-02	PILLAIARKOVIL STREET	Residence
WD-02	AZHAGANERI (DARAPURAM PILLAIARKULAM)	Residence
WD-02	VADUGAAR STREET	Residence
WD-02	VANNARKUDI STREET	Residence
WD-02	ANTHONIAR KOVIL NORTH STREET	Residence
WD-02	ANTHONIAR KOVIL STREET	Residence
WD-02	SENAIAR WEST STREET (SENAIAR ST.EAST LINE)	Residence
WD-02	SENAIAR SOUTH STREET(BAJANAI MADA ST.)	Residence
WD-02	SENAIAR NORTH STREET (EAST THNAGAMMAN KOIL ST.)	Residence
WD-02	MADURAI ROAD 36-115/1 AND 256-429/1	Commercial
WD-02	MADURAI ROAD (ARAVIND NAGAR),MURUGA NAGAR	Residence
WD-02	THENEERKULAM NEW COLONY	Residence
WD-02	AZHAGANERI (PIRAYANKULAM NARAYANAN KOVIL STREET)	Residence
WD-02	KARAI IRUPPU	Residence
WD-02	AZHAGANERI	Residence
WD-02	GRANT SOUTH STREET	Residence
WD-02	SENAIAR STREET	Residence
WD-02	SENAIAR EAST STREET	Residence
WD-02	EAST THANGAMMAN KOVIL	Residence
WD-02	BAJANAMADAM STREET	Residence
WD-02	MANGALAKUDIYERUPU	Residence
WD-02	PALANI STREET	Residence
WD-02	KALAIWANAR STREET	Residence
WD-02	AZHAGANERI (NARAYANAN KOVIL MIDDLE STREET)	Residence
WD-02	SUNDARAPURAM	Residence
WD-02	MUTHU RAMALINGA THEVAR STREET	Residence
WD-02	MELAKKARAI	Residence
WD-02	DHARAPURAM	Residence
WD-02	MURUGA NAGAR	
WD-02	PIRANKULAM	Residence
WD-02	ANTHONIAR KOIL NORTH ST	Residence
WD-02	MELAKARAI NEW COLONY	Residence
WD-02	CHETTIKULAM	Residence
WD-02	CHATHIRAM PUDUKULAM	Residence
WD-02	AZHAGANERI SCHOOL STREET	Residence
WD-02	BYPASS ROAD	Commercial
WD-02	ALAGANERI ARIZANA MIDDLE STREET	Residence
WD-02	ALAGANERI ARIZANA SOUTH STREET	Residence
WD-02	AZAGANERI ARUNTHATHIAR STREET	Residence

	TIRUNELVELI CORPORATION	
WARD NO.	THATCHANALLUR ZONE	Res/Com/Mix
	STREET NAME	
WD-02	KARAIERRUPPU (NORTH EAST SIDE)	Residence
WD-02	KARAIERUPPU (NORTH SOUTH SIDE & WEST SIDE)	Residence
WD-02	SUNDARAPURAM EAST STREET	Residence
WD-02	KARAIERRUPPU (NORTHSIDE WEST SIDE)	Residence
WD-02	KARAIIRRUPPU (NORTH PART WEST SIDE)	Residence
WD-02	R.S.A.NAGAR NORTH SIDE, SOUTH SIDE, WEST SIDE	Residence
WD-02	SUNDARAPURAM SOUTH STREET	Residence
WD-03	ULAGAMMAN KOVIL STREET	Residence
WD-03	ORUDAIAN KUDIRUPPU NORTH STREET (3)	Residence
WD-03	MELA ORUDAIAN KUDIRUPPU NORTH STREET	Residence
WD-03	MELA ORUDAIAN KUDIRUPPU WEST STREET	Residence
WD-03	MELA ORUDAIAN KUDIRUPPU MUDUKKU STREET	Residence
WD-03	ORUDAIAN KUDIRUPPU IST STREET	Residence
WD-03	ORUDAIAN KUDIRUPPU IIND STREET	Residence
WD-03	ORUDAIAN KUDIRUPPU IIIRD STREET	Residence
WD-03	KOMBU MADASAMY KOVIL STREET	Residence
WD-03	NAMBIYAN PACHERY	Residence
WD-03	SOUTH STREET ANANTHAPURAM	Residence
WD-03	MADAGADI PATCHERI NORTH STREET	Residence
WD-03	MIDDLE STREET ANANTHAPURAM	Residence
WD-03	NORTH STREET ANANTHAPURAM	Residence
WD-03	WEST STREET	Residence
WD-03	BALAJEE AVENEW	Residence
WD-03	NORTH STREET	Residence
WD-03	PERUMAL COLONY STREE T (PERUMAL NORTH ST.)	Residence
WD-03	KEELA AGGARAGARAM	Residence
WD-03	SOUTH STREET	Residence
WD-03	NORTH STREET(3)	Residence
WD-03	GRAMA SALAI KEEL BHAGAM	Residence
WD-03	MADAGADI MIDDLE STREET	Residence
WD-03	DALAVAIPURAM SCHOOL STREET	Residence
WD-03	KENGAI AMMAN KOVIL STREET	Residence
WD-03	PERUMAL SOUTH STREET	Residence
WD-03	PERUMAL SANNATHI STREET	Residence
WD-03	MADAN KOVIL STREET	Residence
WD-03	MADAN KOVIL EAST STREET	Residence
WD-03	PUTHU AMMAN KOVIL STREET	Residence
WD-03	MELUR SOUTH STREET	Residence
WD-03	NADUVOOR STREET	Residence
WD-03	SCHOOL STREET	Residence
WD-03	MADAGADI SOUTH STREET	Residence
WD-03	ASARIMAR STREET	Residence
WD-03	MADURAI ROAD (3) (32-35B & 432-478/3)	Commercial
WD-03	MADURAI ROAD	Commercial

	TIRUNELVELI CORPORATION	
WARD NO.	THATCHANALLUR ZONE	Res/Com/Mi
	STREET NAME	
WD-03	SIVASAKTHI ROAD IST SOUTH STREET	Residence
WD-03	NAINAR KULAM ROAD	Commercial
WD-03	PERUMAL KOVIL WEST STREET	Residence
WD-03	MELA AGRAHARAM	Residence
WD-03	THENVADAL PUTHUMANAI STREET	Residence
WD-03	SIVASAKTHI ROAD IIND SOUTH STREET	Residence
WD-03	WEST ORUDAIAN KUDIRUPPU SOUTH STREET	Residence
WD-03	MAVADI KULATHANGARAI STREET	Residence
WD-03	WEST ORUDAIAN KUDIRUPPU WEST STREET	Residence
WD-03	WEST ORUDAIAN KUDIRUPPU LANE STREET NEW COLONY	Residence
WD-03	ANANTHAPURAM SOUTH STREET	Residence
WD-03	ANANTHAPURAM MIDDLE STREET	Residence
WD-03	ANANTHAPURAM NORTH STREET 3	Residence
WD-03	GANGAI AMMAN KOVIL STREET	Residence
WD-03	OORUDIAN KUDIERRUPU SOUTH ST	Residence
WD-03	PRIYA GARDEN	Residence
WD-03	PERUMAL NORTH STREET	Residence
WD-03	SAM NAGAR MAVADI KULATHANKARAI	Residence
WD-03	ORIDAIAN KUDIRUUPU DEVAMAR KUDIRUPPU	Residence
WD-03	PGROAD	
WD-03	BALAJI NAGAR	Residence
WD-03	SIVASAKTHI ROAD	Residence
WD-03	ORUDAIAN KUDIRUPPU MIDDLE STREET	Residence
WD-03	ORUDAIAN KUDIRUPPU NORTH STREET	Residence
WD-03	MIDDLE STREET THENVADAVAL PUTHUMANAI STREET	Residence
WD-04	NORTH HARIJANA STREET	Residence
WD-04	KANNAGI STREET	Residence
WD-04	KALAIVANAR N.S.K.STREET	Residence
WD-04	UDAIARPATTI SANGILI POOTHATHAR STREET	Residence
WD-04	UDAIARPATTI SALAI STREET	Residence
WD-04	MEGALINGAPURAM NORTH STREET	
WD-04	THATCHANALLUR ROAD (WASTE LAND)	
WD-04	SELVI AMMAN NORTH STREET	Residence
WD-04	BYE PASS ROAD (4)	Commercial
WD-04	SIVASAKTHI NAGAR	Residence
WD-04	MEGALINGAPURAM SALAI STREET	
WD-04	MARAVAR STREET	Residence
WD-04	SELVI AMMAN NORTH STREET (EXTENSION)	Residence
WD-04	BALA PACKIAH NAGAR	Residence
WD-04	SUGAR MILL COLONY	Residence
WD-04	MADURAI ROAD(98-108)	Commercial
WD-04	PILLAIMAR STREET(D.NO. 101,101A)	Residence
WD-04	THATCHANALLUR ROAD (THILAK NAGAR)	Residence
WD-04	KAMARAJAR STREET (4)	Residence

	TIRUNELVELI CORPORATION	
WARD NO.	THATCHANALLUR ZONE	Res/Com/Mix
	STREET NAME	
WD-04	SIVANTHI NAGAR	Residence
WD-04	MADURAI ROAD(4)	Commercial
WD-04	GOKULAM STREET	Residence
WD-04	PILLAIMAR STREET	Residence
WD-04	SANGALI BOOTHATHAN KOIL ST	Residence
WD-04	SOUTH BALA BACKIANAGAR	Residence
WD-04	BALAPACKIANAGAR SOUTH	Residence
WD-04	NORTH BALAPACIANAGAR	Residence
WD-04	SALAT MATHAPURAM	Residence
WD-04	MANIMOORTHEESWARM SIDE	Residence
WD-04	KAMATCHIAMMAN KOVIL STREET	Residence
WD-04	PANNEER SELVAM STREET	Residence
WD-04	ANNAI SATHIAH STREET	Residence
WD-04	UDAIARPATTI ATHANGARAI STREET	Residence
WD-04	VZHAVANTHA AMMAN KOVIL STREET	Residence
WD-05	KAMARAJAR STREET (NADAR ST.)	Residence
WD-05	SREEPURAM	Mixed
WD-05	S.N.HIGH ROAD	Commercial
WD-05	T.M.ROAD	
WD-05	MADURAI ROAD(5)	Commercial
WD-05	SINDUPOONDURAI SALAI STREET	Residence
WD-05	SINDUPOONDURAI EAST STREET	Residence
WD-05	PUTHU AMMAN KOVIL STREET	Residence
WD-05	RAILWAYCOLONY	Residence
WD-05	POLICECOLONY	Residence
WD-05	SINDUPOONDURAI WEST STREET	Residence
WD-05	SINDUPOONDURAI MIDDLE STREET	Residence
WD-05	SINDUPOONDURAI NORTH STREET	Residence
WD-05	SELVINAGAR(5)	Residence
WD-06	GANESAPURAM	Commercial
WD-06	PERUMAL SOUTH CAR STREET	Residence
WD-06	PERUMAL NORTH CAR STREET	Residence
WD-06	PERUMAL SANNATHI ST	Residence
WD-06	KAILASAPURAM NORTH STREET	Residence
WD-06	KAILASAPURAM EASTSTREET	Residence
WD-06	KAILASAPURAM MIDDLE STREET	Residence
WD-06	KAILASAPURAM SOUTH STREET	Residence
WD-06	KAILASAPURAM WEST STREET	Mixed
WD-06	MOTHILAL STREET	Residence
WD-06	HIGH ROAD	Residence
WD-06	PERUMAL EAST CAR STREET	Mixed
WD-07	BARATHI COLONY	Residence
WD-07	MEENAKSHIPURAM EAST STREET	Residence
WD-07	PULIAN THOPPU SOUTH STREET	Residence

	TIRUNELVELI CORPORATION	
WARD NO.	THATCHANALLUR ZONE	Res/Com/Mix
	STREET NAME	
WD-07	PULIAN THOPPU MIDDLE STREET	Residence
WD-07	PULIAN THOPPU WEST STREET	Residence
WD-07	PULIAN THOPPU NORTH STREET	Residence
WD-07	PULIAN THOPPU SOUTH STREET	Residence
WD-07	MEENAKSHIPURAM SOUTH STREET (7)	Residence
WD-07	MEENAKSHIPURAM NORTH STREET (7)	Residence
WD-07	PERUMAL WEST CAR STREET (7)	Residence
WD-07	PILLAIYAR KOIL ST	Residence
WD-07	BARANI STREET	Residence
WD-07	DHARMARAJA KOVIL EAST ST	Residence
WD-07	MEENACHIPURAM CROSS STREET	Residence
WD-07	MEENAKSHIPURAM EAST STREET	Residence
WD-07	ADIDANAR STREET	Residence
WD-07	ETTHIRAJ STREET	Residence
WD-07	ANNA NAGAR	Residence
WD-07	SIVA PURAM	Residence
WD-07	VARATHARAJA PURAM	Residence
WD-07	SANNIASI GRAMAM	Residence
WD-07	SIDDI VINAYAGAR KOVIL STREET	Residence
WD-39	MUTHURAMALINGANAR STREET	Residence
WD-39	KURUGUTHURAI SOUTH CAR STREET	Residence
WD-39	C.N.GRAMAM EAST STREET	Residence
WD-39	C.N.GRAMAM SORGAVASAL STREET	Residence
WD-39	C.N.GRAMAM WEST STREET	Residence
WD-39	C.N.GRAMAM MISSION STREET	Residence
WD-39	MEENACHI PURAM MELA STREET (RAILWAY COLONY INCULDED)	Residence
WD-39	V.K.ROAD	Residence
WD-39	CNV 7TH STREET	Residence
WD-39	C.N.GRAMAM LAKSHMIPURAM	Residence
WD-39	C.N.GRAMAM PUTHUMANAI STREET	Residence
WD-39	SCHOOL STREET	Residence
WD-39	KURUGUTHURAI ROAD	Mixed
WD-39	BABUJEE JEGAJEEVAN RAM COLONY	Residence
WD-39	VEERARAGAVAR COLONY	Residence
WD-39	RAJAJEE STREET	Residence
WD-39	KURUGUTHURAI NORTH CAR STREET	Residence
WD-39	KURUGUTHURAI EAST CAR STREET THIRUNEELAGANDAR STREET	Residence
WD-54		Residence
WD-54	PARVATHA SINGA RAJA STREET	Residence
WD-54	KARUVELAN KUNDU WEST STREET	Residence
WD-54	KARUVELAN KUNDU STREET	Residence
WD-54	AKKASALAI VINAYAGAR KOVIL STREET	Residence
WD-54	NORTH ANAVARATHA VINAYAGAR KOVIL STREET	Residence
WD-54	THONDAR SANNATHI STREET	Residence

	TIRUNELVELI CORPORATION	
WARD NO.	THATCHANALLUR ZONE	Res/Com/Mix
	STREET NAME	
WD-54	AKKASALAI VINAYAGAR KOVIL STREET	Residence
WD-54	KAMACHIAMMAN KOVIL STREET	Residence
WD-54	NALLAMUTHAMMAN KOIL SOUTH STREET	Residence
WD-54	NALLAMUTHAMMAN SANNATHI STREET	Residence
WD-54	VEERASAIVA ANAVARADHA VINAYAGAR KOVIL STREET	Residence
WD-54	NORTH ANAVARATHA VINAYAGAR KOVIL STRET	Residence
WD-54	KAMARAJAR STREET(54)	Residence
WD-54	PARVADHASINGH RAJA SOUTH STREET	Residence
WD-54	NALLAMUTHAMMAN WEST STRET	Residence
WD-54	ANAVARATHA VINAYAGAR KOVIL STREET	Residence
WD-54	AZAD ROAD	Residence
WD-54	THONDAR WEST STREET	Residence
WD-54	THONDAR NORTH STREET	Residence
WD-54	PARVATHA SINGA RAJA NORTH STREETAND SOUTH STREET	Residence
WD-55	BLOCK NO:1 KANDIAPERI HARIJANA PERUMAL KOVIL STREET	Residence
WD-55	KANDIAPERI MUPPITATHIAMMAN STREET	Residence
WD-55	MANDIRAMOORTHY STREET	Residence
WD-55	BLOCK NO:4 KANDIAPERI VAIGALKARAI STREET	Residence
WD-55	THIRUVALLUVAR STREET PART3	Residence
WD-55	THIRUVALLUVAR STREET PART2	Residence
WD-55	THIRUVALLUVAR STREET PART1	Residence
WD-55	DARMARAJA KOVIL STREET	Residence
WD-55	PUTTARATHIAMMAN KOVIL STREET	Residence
WD-55	PUTTARATHIAMMAN LANE STREET	Residence
WD-55	NETHAJI ROAD (W.NO 55)	Residence
WD-55	BLOCKNO2 ILANTHAKULAM THEVAR NORTH STREET	Residence
WD-55	KANDIAPERI DEVAR NORTH STREET	Residence
WD-55	KANDIAPERI HARIJAN GANESAN KOVIL STREET	Residence
WD-55	KANDIAPERI ILANTHAIKULAM NADAR JEBASTHIAR KOVIL STREET	Residence
WD-55	KANDIAPERI ILANTHAIKULAN DEVAR STREET	Residence
WD-55	KANDIAPERI ILANTHAIKULAM HARIJAN STREET	Residence
WD-55	KANDIAPERI ILANTHAIKULAM NEW COLONY VELLA KOVIL STREET	Residence
WD-55	KANDIAPERI FARISULLAH THAIHA STREET	Residence
WD-55	SANKARANKOVIL ROAD	Commercial
WD-55	DHARMARAJA KOVIL EAST STREET	Residence
WD-55	KANDIAPERI HARIJAN PERUMAL KOVIL ST	Residence
WD-55	BLOCK NO:5 FARISULLAH THAIGHA STREET	Residence
WD-55	KANDIAPERI NALLAKUTTY KUDIRRUPPU	Residence
WD-55	KANDIAPERI KOTTAIADI HARIJAN STREET	Residence
WD-55	KANDIYAPERI MUPPIDATHI AMMAN STREET	Residence
WD-55	KANDIAPERI VAAIKAL STREET	Residence
WD-55	BLOCK NO KANDIA PERI KOTTAIADI	Residence
WD-55	B1-KANDIAPERI H.P.K.STREET	Residence
WD-55	RAJAJEE PURAM	Residence

	TIRUNELVELI CORPORATION	
WARD NO.	THATCHANALLUR ZONE	Res/Com/Mix
	STREET NAME	
WD-55	KANDIAPERI MUPPITATHIAMMAN NORTH STREET	Residence
WD-55	KANDIAPERI COLONY	Residence
WD-55	KANDIAPERI NALLAKUTTY NORTH STREET	Residence

	TIRUNELVELI CORPORATION	
WARD NO.	TIRUNELVELI ZONE	Res/Com/Mix
	STREET NAME	
WD-40	BHARATHIYAR STREET	Commercial
WD-40	PUTHATHAR SANNATHI STREET	Mixed
WD-40	AMMAN SANNATHI STREET	Residence
WD-40	KATTALAI KARUVELAN CUNRU STREET	Residence
WD-40	KAVAL PIRAI STREET	Residence
WD-40	POODHATHAR SANNATHI STREET	Residence
WD-40	POOTHATHAR SANNATHI STREET	Residence
WD-40	MANIPURAM	Residence
WD-40	MUTHURAMALINGA PURAM	Residence
WD-40	SASTHA KOVIL STREET	Residence
WD-40	KALLATHI LANE STREET	Residence
WD-40	VAIYAPURI NAGAR	Residence
WD-40	KATTALAI PALLA STREET	Residence
WD-40	KATTALAI KARUVELAN KUNRU STREET	Residence
WD-40	KAVALPIRAI STREET	Residence
WD-41	CHERANMAHADEVI ROAD	Commercial
WD-41	KALUVETTRI LANE STREET	
WD-41	WEST MADA STREET	Commercial
WD-41	WEST CAR STREET	Commercial
WD-41	KARPAGA VINAYAGAR KOIL STREET	Residence
WD-41	SOUTH CAR STREET	Commercial
WD-41	NORTH CAR STREET	Commercial
WD-41	NAINARKULAM STREET	Mixed
WD-41	TOWN CLUB LANE	Residence
WD-41	NORTH MOUND ROAD	Mixed
WD-41	SATHYAMOORTHY STREET	Mixed
WD-41	VASIKKA MEENDA VINAYAGAR KOVIL STREET	Residence
WD-41	SANDIKESWARAR STREET	
WD-41	THEPPAKULAM EAST STREET	Residence
WD-41	VALAMPURI AMMAN KOIL STREET	
WD-41	MANIKKAVASAGAR STREET	Residence
WD-41	SWAMY SANNATHI STREET	Commercial
WD-41	EAST CAR STREET	Commercial
WD-41	SUNDARAR STREET	Residence
WD-41	TAMILSANGAM STREET	Residence
WD-41	PERARIGNAR ANNA 1ST STREET	Residence
WD-41	PERARIGNAR ANNA 2ND STREET	Residence
WD-41	SUDALAIMADAN KOIL STREET	Residence
WD-41	PERARIGNAR ANNA 3RD STREET	Residence
WD-41	SOUTH MADA STREET (POLICE QUARTERS)	Residence
WD-41	SANGAROJITHAR STREET	Mixed

TIRUNELVELI ZONE STREET NAME EAST CAR STREET EAST CAR STREET NORTHCAR STREET PERRARINGAR ANNA STREET SATHIYA MOORTHY STREET SUDALAI MADAN KOVIL STREET CHITTIRAI LANE STREET SENGOLL LANE STREET SUNDARA THOLAR STREET APPAR STREET VEERAKERALA PERUN STREET	Res/Com/Mix Commercial Commercial Commercial Residence Residence
EAST CAR STREET EAST CAR STREET NORTHCAR STREET PERRARINGAR ANNA STREET SATHIYA MOORTHY STREET SUDALAI MADAN KOVIL STREET CHITTIRAI LANE STREET SENGOLL LANE STREET SUNDARA THOLAR STREET APPAR STREET	Commercial Commercial Residence Residence
EAST CAR STREET NORTHCAR STREET PERRARINGAR ANNA STREET SATHIYA MOORTHY STREET SUDALAI MADAN KOVIL STREET CHITTIRAI LANE STREET SENGOLL LANE STREET SUNDARA THOLAR STREET APPAR STREET	Commercial Commercial Residence Residence
NORTHCAR STREET PERRARINGAR ANNA STREET SATHIYA MOORTHY STREET SUDALAI MADAN KOVIL STREET CHITTIRAI LANE STREET SENGOLL LANE STREET SUNDARA THOLAR STREET APPAR STREET	Commercial Residence Residence
PERRARINGAR ANNA STREET SATHIYA MOORTHY STREET SUDALAI MADAN KOVIL STREET CHITTIRAI LANE STREET SENGOLL LANE STREET SUNDARA THOLAR STREET APPAR STREET	Residence Residence
SATHIYA MOORTHY STREET SUDALAI MADAN KOVIL STREET CHITTIRAI LANE STREET SENGOLL LANE STREET SUNDARA THOLAR STREET APPAR STREET	Residence
SUDALAI MADAN KOVIL STREET CHITTIRAI LANE STREET SENGOLL LANE STREET SUNDARA THOLAR STREET APPAR STREET	
CHITTIRAI LANE STREET SENGOLL LANE STREET SUNDARA THOLAR STREET APPAR STREET	
SENGOLL LANE STREET SUNDARA THOLAR STREET APPAR STREET	
SUNDARA THOLAR STREET APPAR STREET	
APPAR STREET	
	_
VEEDAKEDALA PERLIN STREET	Mixed
VLLIVALLIVALA I LIVUN UTIVLLI	Commercial
JEEVA STREET	Residence
KALLANAI STREET	Residence
VAGAIYADI AMMAN KOIL STREET	Mixed
SANJAY GANDHI COLONY	
	Residence
	Residence
	Mixed
	Residence
	Mixed
	Residence
	residence
	Commercial
	Residence
	Commercial
	Mixed
	Residence
	Nesidelice
	Residence
	Residence
	Residence
	Residence
	Residence Residence
	KALLANAI STREET VAGAIYADI AMMAN KOIL STREET

	TIRUNELVELI CORPORATION	
WARD NO.	TIRUNELVELI ZONE	Res/Com/Mix
	STREET NAME	
WD-44	ENNAYIRAM PILLAIYAR KOIL EAST STREET	Residence
WD-44	SAMIYA THAIKA STREET	
WD-44	THADIVEERAN KOIL WEST STREET	Residence
WD-44	SANKARANARAYANAN STREET	Residence
WD-44	KUMARAN STREET	Residence
WD-44	THADIVEERAN KOVIL WEST STREET	Residence
WD-44	THADIVEERAN KOVIL EAST STREET	Residence
WD-44	THADIVEERAN KOVIL STREET	Residence
WD-44	KODEESHWARAN NAGAR	Residence
WD-44	OTTAKOOTHER STREET	Residence
WD-44	ABIRAMI NAGAR	Residence
WD-44	VETHATHRI NAGAR	Residence
WD-44	ABIRAMI NAGAR , R.R.J. NAGAR	Residence
WD-44	VEERAVANJI NATHAN STREET	Residence
WD-44	NABIGAL NAYAGAM STREET	Residence
WD-44	THOTTIPALA STREET	Residence
WD-44	ALADI VINAYAGAR KOIL STREET	
WD-44	VELLANTHANGI PILLAIYAR KOIL STREET	Residence
WD-44	NARAYANA MOORTHY LANE	Residence
WD-44	CHERANMAHADEVI ROAD	Commercial
WD-45	CHERANMAHADEVI ROAD 5	Residence
WD-45	SUNDARA VINAYAGAR KOVIL STREET	Residence
WD-45	SELVA VINAYAGAR KOIL SOUTH STREET	Residence
WD-45	SELVA VINAYAGAR KOIL NORTH STREET	Residence
WD-45	ARASADI VINAYAGAR KOIL STREET	Residence
WD-45	ANDALPURAM STREET	Residence
WD-45	MULLIKULAM STREET	Residence
WD-45	M.C.RAJA STREET	Residence
WD-45	KURALOVIAM STREET	Residence
WD-45	RAM NAGAR	Residence
WD-45	THANTHAI PERIYAR STREET	Residence
WD-45	KAMARAJAR NAGAR	11001001100
WD-45	UDAIYAVAR STREET	Residence
WD-45	KALUNKADI STREET	Residence
WD-45	LAJAPATHY STREET	Residence
WD-45	ANJANEYAR STREET	recidence
WD-45	MARUTHI STREET	
WD-45	SUNDARA VINAYAGAR KOIL STREET (PADAIYATCHI STREET -2)	Residence
WD-45	THIRUVALLUVAR STREET 2	Residence
WD-45	NELLAIAH PURAM EAST STREET	Residence
WD-45	DR. AMBETHKAR NAGAR	1.001001100
WD-45	SUNDARA VINAYAGAR WEST STREET	Residence
WD-45	MAHTHUM GNANIYAR PALLIVASAL EAST STREET	Residence
WD-45	SUNDARA VINAYAGAR CHEKKADI STREET	Residence
WD-45	SUNDARAVINAYAGAR SOUTH STREET	Residence
WD-45	SUNDARA VINAYAGAR KOIL STREET (PADAIYATCHI STREET-1)	Residence
WD-45	NELLAIAH PURAM STREET	Residence
WD-46	VEMBADI AMMAN KOIL STREET	Residence

	TIRUNELVELI CORPORATION	
WARD NO.	TIRUNELVELI ZONE	Res/Com/Mix
	STREET NAME	
WD-46	THIRIPURASUNDARIAMMAN SANNATHI STREET	Residence
WD-46	THIRIPURASUNDARIAMMAN KOVIL WEST STREET	Residence
WD-46	VINAITHEERTHA VINAYAGAR KOVIL STREET	Residence
WD-46	MADASAMI KOVIL STREET	Residence
WD-46	V.V.K STREET	Residence
WD-46	SANTHANA MARIAMMAL KOVIL STREET	Residence
WD-46	SANTHANA MARIAMMAN KOVIL STREET	Residence
WD-46	CHERANMAHADEVI ROAD	Commercial
WD-46	DURGAI AMMAN KOVIL STREET	Residence
WD-46	ANNA THANA VINAYAGAR KOIL STREET	Residence
WD-46	SANTHANAMARIAMMAN KOVIL STREET	Residence
WD-46	EAST BAZAR	Residence
WD-46	DURGAIAMMAN KOVIL EAST STREET	Residence
WD-46	PUTHU STREET	Residence
WD-46	DURGAIAMMAN WEST STREET	Residence
WD-46	UTTICHINIMAHALI AMMAN KOVIL STREET	Residence
WD-46	SARKARAI VINAYAGAR KOVIL STREET	Residence
WD-47	MOUND ROAD	Commercial
WD-47	CHERANMAHADEVI ROAD	Commercial
WD-47	NARAYANASAMY KOVIL STREET	Residence
WD-47	PATHRAKALI AMMAN KOVIL	Residence
WD-47	PANDIYAPURAM SOUTH STREET	Residence
WD-47	PANDIYAPURAM NORTH STREET	Residence
WD-47	KATHER AVULIYA PALLIVASAL 1ST STREET	Residence
WD-47	KATHER AVULIYA PALLIVASAL 2ND STREET	Residence
WD-47	KATHER AVULIYA PALLIVASAL 3RD STREET	Residence
WD-47	MOHAMED NAINAR PALLIVASAL 1ST SOUTH STREET	Residence
WD-47	BANGALOW STREET	Residence
WD-47	KATTAPOMMAN STREET	Residence
WD-47	PUDU GRAMAM SUNDARA VINAYAGAR KOVIL SOUTH	Residence
WD-47	PUDUGRAMAM SUNDARA VINAYAGAR KOVIL NORTH	Residence
WD-47	VEERABAGU NAGAR	Residence
WD-47	PATHRA KALI AMMAN KOVIL STREET	
WD-47	POUND STREET	Residence
WD-47	PASUMPON EAST STREET	1.00.00
WD-47	PASUMPON WEST STREET	
WD-47	ASHOKAR NORTH STREET	Residence
WD-47	ASHOKAR SOUTH STREET	Residence
WD-47	KARUGKADU ROAD	Residence
WD-47	KAKKANJI STREET	Residence
WD-47	KAI VINAIGNAR STREET	Residence
WD-48	RAHUMANIA PALLIVASAL WEST STREET	Residence
WD-48	THIRUPPANI KARISALKULAM ANNA NAGAR	Residence
WD-48	CHERANMAHADEVI ROAD NORTH EXTENTION	Residence
WD-48	CHERANMAHADEVI ROAD SOUTH EXTENTION	Residence
WD-48	NARASINGANALLUR TIRUVALLUVAR & INDUSTRIA	Industry
WD-48	VETTAIKARAN KULAM EXTENSION	Residence
WD-48	ANNANAGAR	Residence

	TIRUNELVELI CORPORATION	
WARD NO.	TIRUNELVELI ZONE	Res/Com/Mix
	STREET NAME	
WD-48	CHERANMAHADEVI ROAD	Commercial
WD-48	NARIKURAVAR COLONY	Residence
WD-48	VISWANATHA NAGAR	Residence
WD-48	SASTHRI NAGAR	Residence
WD-48	PUDUMANAI STREET	Residence
WD-48	CHENTHAMILNAGAR	Residence
WD-48	TEACHERS COLONY	Residence
WD-48	NAVA NAGAR COLONY	Residence
WD-48	SENTHAMIL NAGAR	Residence
WD-48	GOMATHY NAGAR, PART II	Residence
WD-48	THENDRAL NAGAR, PETTAI	Residence
WD-48	M.G.R. NAGAR	Residence
WD-48	KANTHIMATHI NAGAR	Residence
WD-48	NARASINGANALLUR	Residence
WD-48	R.P. 4TH NORTH STREET	Residence
WD-48	RAHUMANIA PALLIVASAL SANNATHI STREET	Residence
WD-48	RAHUMANIYA PALLIVASAL MELA PUDUMANAI ST	Residence
WD-48	GOMATHY NAGAR PART I	Residence
WD-48	T.N.H.B. COLONY	Residence
WD-48	ANNA NAGAR WEST (KAMARAJAR SCHOOL BACK SIDE)	Residence
WD-48	SATHYA NAGAR	Residence
WD-48	RAIL NAGAR	Residence
WD-48	NEHRUJI NAGAR	Residence
WD-48	RAHUMANIA PALLIVASAL 1ST NORTH STREET	Residence
WD-48	RAHUMANIA PALLIVASAL 2ND NORTH STREET	Residence
WD-48	RAHUMANIA PALLIVASAL 3RD NORTH STREET	Residence
WD-48	RAHUMANIA PALLIVASAL 4TH NORTH STREET	Residence
WD-48	THIRUPPANI KARISAL KULAM	Residence
WD-48	VAGAIKULAM	Residence
WD-49	CHRANMAHADEVI ROAD	Commercial
WD-49	PUNITHA ANTHONIYAR SOUTH STREET	Residence
WD-49	PUNITHA ANTHONIYAR NORTH STREET	Residence
WD-49	SAMBAPURAM STREET	Residence
WD-49	SAMBAPURAM NORTH STREET	Residence
WD-49	SAMBAPURAM EAST STREET	Residence
WD-49	MAHDUM GNANIYAR PALLIVASAL 5TH NORTH STREET	Residence
WD-49	MAHDUM GNANIYAR PALLIVASAL 4TH NORTH STREET	Residence
WD-49	QUAIDE MILLATH STREET	Residence
WD-49	MAHTHUM GNANIYAR PALLIVASAL 2ND NORTH STREET	Residence
WD-49	MAHTHUM GNANIYAR PALLIVASAL 1ST NORTH STREET	Residence
WD-49 WD-49	MOHAMED NAINAR PALLIVASAL 2ND SOUTH STREET	Residence
WD-49 WD-49	MAHTHUM GNANIYAR PALLIVASAL SANNATHI STREET	Residence
WD-49 WD-49	CHERANMAHADEVI ROAD	Commercial
WD-49 WD-49	M.G.P.SANNATHI STREET	
WD-49 WD-49	M.N.P.1ST NORTH ST	Residence
WD-49 WD-49	M.N.P.2ND NORTH ST	Residence
WD-49 WD-49	MAHTHUM GNANIYAR PALLIVASAL 3rd NORTH ST	Residence
	M.N.P.IIND NORTH STREET	Residence
WD-49	ואו.וא.ר.וואט אטאוח אואבבו	Residence

	TIRUNELVELI CORPORATION	
WARD NO.	TIRUNELVELI ZONE	Res/Com/Mix
	STREET NAME	
WD-49	MOHAMED NAINAR PALLIVASAL EAST STREET	Residence
WD-49	MOHAMED NAINAR PALLIVASAL SANNATHY STREET	Residence
WD-49	MOHAMED NAINAR PALLIVASAL 1ST NORTH STREET	Residence
WD-49	SIDDHI VINAYAGAR KOVIL STREET	Residence
WD-49	PUDU KINARU STREET	Residence
WD-49	MOHAMED NAINAR PALLIVASAL 2ND NORTH STREET	Residence
WD-49	ODAKARAI STREET	Residence
WD-50	ALAGAPPAPURAM MIDDLE STREET	Residence
WD-50	NARAYANASAMI KOIL STREET NORTH	Residence
WD-50	SAROJINI STREET	Residence
WD-50	TENKASI ROAD	Commercial
WD-50	SARTHAR PURAM EAST STREET	Residence
WD-50	SARTHAR PURAM MIDDLE STREET	Residence
WD-50	SARTHAR PURAM SOUTH STREET	Residence
WD-50	SARTHAR PURAM NORTH STREET	Residence
WD-50	NARAYANASAMY KOIL NORTH STREET	Residence
WD-50	ANAVARATHA VINAYAGAR KOIL STREET	Residence
WD-50	SUNDARA VINAYAGAR KOIL STREET	Residence
WD-50	ALAGAPPAPURAM SOUTH STREET	Residence
WD-50	SAMUGA RENGA PURAM	Residence
WD-50	CHEKKADI NARAYANASAMY KOIL STREET	Residence
WD-50	KANNIVINAYAGAR KOIL NORTH STREET	Residence
WD-50	NARAYANASAMI KOVIL WEST STREET	Residence
WD-50	INDHIRA NAGAR	Residence
WD-50	GANDHINAGAR STREET	Residence
WD-50	KOLLAR MIDDLE STREET	Residence
WD-50	GANDHI NAGAR B COLONY	Residence
WD-50	SHEIK MADHAR COLONY	Residence
WD-50	GANDHI NAGAR	Residence
WD-50	ANNAI INDRA STREET	Residence
WD-50	KARUVELANGUNDU STREET	Residence
WD-50	NELLAIAH PURAM	Residence
WD-50	KANNI VINAYAGAR KOVIL SOUTH STREET	Residence
WD-50	SHAMUGARENGAIYAN KATTALAI STREET	Residence
WD-50	GANTHI NAGAR 2ND STREET	Residence
WD-50	C.S.S. NAGAR	Residence
WD-50	GANDHI NAGARSOUTH	Residence
WD-50	GANTHI NAGAR 6TH STREET	Residence
WD-50	GANTHI NAGAR OTT STREET	Residence
WD-50	M.S.K. NAGAR	Residence
WD-50	ANAVARATHA SUNDARAVINAYAGAR KOIL STREET	Residence
WD-50	GANTHI NAGAR 5TH STREET	Residence
WD-50	GANTHI NAGAR STIT STREET	Residence
WD-50	I.O.B. COLONY	
WD-50	GANTHI NAGAR 3RD CROSS STREET	Residence
WD-50	GANDHI NAGAR 3RD CROSS STREET GANDHI NAGAR 3RD STREET	Residence
WD-50	SHIEK MATHAR NAGAR	Residence
		Residence
WD-50	GANTHINAGAR 8TH STREET	Residence

	TIRUNELVELI CORPORATION	
WARD NO.	TIRUNELVELI ZONE	Res/Com/Mix
	STREET NAME	
WD-50	GANTHINAGAR 7TH STREET	Residence
WD-50	NEDUNGULAM	Residence
WD-50	ANAVARATHA SUNDARAVINAYAGAR SOUTH STREET	Residence
WD-50	NIYAZ COLONY	Residence
WD-50	A.S.V.KOVIL NORTH STREET	Residence
WD-50	I.O.B.COLONY	Residence
WD-50	KANNI VINAYAGAR STREET	Residence
WD-50	SAMUGARENGAIAN KATTALAI	Residence
WD-50	SAMUGARENGAIYAN KATTALAI	Residence
WD-50	SHEIK MADHAR NAGAR	Residence
WD-50	SHIEKMADAR NAGAR	Residence
WD-50	VANIYAR NORTH STREET	Residence
WD-50	AMBEDKAR COLONY	Residence
WD-50	KANNIVINAYAGAR KOIL STREET	Residence
WD-50	VANIYAR SOUTH STREET	Residence
WD-50	NARAYANASAMY KOVIL NORTH ST SOUTH LINE	Residence
WD-50	AMBETHKAR NAGAR	Residence
WD-50	KANDIYAPERI B.7 NEDUNKULAMPILLAIYANKATTALAI	Residence
WD-50	KANDIYAPERI B.6 GANDHINAGAR&SHEIKMATHAR NAGAR	Residence
WD-50	VETNARY HOUSING BOARD	Residence
WD-50	ANAVARATH VINAYAGAR CINNA ST.	Residence
WD-50	SARTHARPURAM WEST STREET	Residence
WD-50	PULIYANGUDI NARAYANASAMI KOIL STREET	Residence
WD-50	NARAYANASAMI KOIL STREET	Residence
WD-50	CHEKKADI VINAYAGAR KOIL STREET	Residence
WD-50	KANDIAPERI AMBETHKAR NAGAR	Residence
WD-51	KANMIYAN PALLIVASAL STREET	Residence
WD-51	MOHAMED ALI STREET	Residence
WD-51	SAILAPPAR STREET	Residence
WD-51	BALAKRISHNAN EAST STREET	Residence
WD-51	MADHA MELA STREET	Residence
WD-51	JAWAHARLAL STREET	Residence
WD-51	WEST MOUNT ROAD	Residence
WD-51	MELA MOUNT ROAD	Residence
WD-51	KRISHNAPERI VISTHARIPU	Residence
WD-51	PARVATHA SINGA RAJA STREET-51	Mixed
WD-51	PERIYA SAMY KOIL STREET	Residence
WD-51	THIRUVALLUVAR STREET	Residence
WD-51	NIYAZ COLONY	Residence
WD-51	KRISHNAPERI	Residence
WD-51	ANNAI VELANKANNI NAGAR	Residence
WD-51	KRISHNAPERI THOPPU STREET	Residence
WD-51	KRISHNAPERI MUSLIM STREET	Residence
WD-51	KARAIYADI PATCHERI	Residence
WD-51	LALUKAPURAM WEST STREET	Residence
WD-51	LALUKAPURAM EAST STREET	Residence
WD-51	JEYAPRAKASH STREET	Residence
WD-51	BAHAVATH SINGH STREET	Residence

	TIRUNELVELI CORPORATION	
WARD NO.	TIRUNELVELI ZONE	Res/Com/Mix
	STREET NAME	
WD-52	AZADH ROAD	Mixed
WD-52	JAMIYA PALLIVASAL STREET	Residence
WD-52	ELUSILAI VINAYAGAR KOVIL STREET	Residence
WD-52	VENUVANA KUMARAR STREET	Residence
WD-52	MADHA SOUTH WEST STREET	Residence
WD-52	MADHA MIDDLE STREET	Residence
WD-52	PARVATHA SINGA RAJA STREET-52	Mixed
WD-52	AZAD ROAD	Residence
WD-52	PERIYASAMY KOVIL STREET	Residence
WD-52	SIKKANTHARPURAM WEST STREET	Residence
WD-52	SIKKANTHARPURAM STREET	Residence
WD-52	JAWAHARLAL STREET 1	Residence
WD-52	MADHAPOONGODI STREET	Residence
WD-52	MADHA SANNATHI STREET	Residence
WD-52	MOHAMED MUSTAFA STREET	Residence
WD-52	BASKARAR STREET	Residence
WD-52	KANTHIMATHI STREET	Residence
WD-53	MIDDLE STREET	Residence
WD-53	JAWAHARLAL STREET 2	Residence
WD-53	THANDIYAL SAVADI STREET	Residence
WD-53	KOLLAKADAI STREET	Commercial
WD-53	SAVANAYANAR STREET	
WD-53	PUGALENTHI STREET	Residence
WD-53	VALLALAR STREET	Residence
WD-53	THAIYALKARAR STREET (ANJUGAM STREET)	Residence
WD-53	SAMPANTHAR STREET	Residence
WD-53	VEMBADI STREET	Residence
WD-53	CHERANMAHADEVI ROAD 2	Commercial
WD-53	BIG STREET	Residence

SAFETY MEASURES FOR PIPELAYING-SAMPLE TEMPLATE

	OAI ETT MEAGGREGT GRETT EEATHV			OAMI EE IEMI EAIE				
Type of Road	Average width (m)	Max. Pipe dia (mm)	Max. width of actual excavation (mm)	Method of excavation	Working Width from One Edge (m)	Length of single working stretch (m)	Method of Traffic Management	Remarks
Bituminous	5	300	700	Mechanical	2	200	Flagmen at both ends plus no	Night time working may be
Biturnirious				(mini digger)	_		parking sign for 100m on either end	opted at busy sections with prior permission, stake holder consultation and noise control measures.
_	6	-do-	-do-	-do-	-do-	-do-	-do-	-do-
	7.5	-do-	-do-	-do-	-do-	-do-	-do-	-do-
Concrete	2	100	250	Manual	0.5	50	Flagmen at both ends. Only pedestrian traffic will be allowed.	-do-
	3	100	250	Manual	1	50	-do-	-do-
	4	150	350	Manual	1	100	Flagmen at both ends. Pedestrian traffic can be allowed during works. Vehicles will be allowed after day's work by covering the trench with steel plates.	-do-
	5	150	350	Mechanical	2	200	Flagmen at both ends plus no parking sign for 100m on either end	-do-
	6	200	500	Mechanical	2	200	-do_	
Tiles	2	50	150	Manual	0.5	50	Flagmen at both ends. Only pedestrian traffic will be allowed.	-do-
	3	100	250	Manual	0.5	50	-do-	-do-
Earthen road	1	50	150	Manual	0.5	50	Controlled by general operative. Only pedestrian traffic will be allowed.	
	2	50	150	Manual	0.5	50	-do-	

Notes:

- (i) Works will be carried out with due intimation to ULB/PWD and after stakeholder consultations
- (ii) All service providers (electricity, telecom, OFC, cable TV, gas etc.) shall be notified and consulted well in advance to identify bottlenecks and possible solutions.
- (iii) Reinstatement will be carried out in two phases temporary and final.
- (iv) Special festival, business (local bazar) etc. days will be strictly followed and works causing disturbance will not be carried out on those days.
- (v) No drainage channel shall be disturbed/stopped during construction works. Any drain affected by construction works shall be set right as early as possible and definitely before onset of monsoon.
- (vi) The pedestrian area shall be always kept free from debris / trip hazard
- (vii) Environmental Management Plan (EMP) shall be strictly followed for all works and also dealing with any asbestos cement pipes.
- (viii) Land contamination, if encountered, shall be immediately brought to the notice of the PIU/PMU and remedial measures shall be taken as advised. Disposal of contaminated earth shall be as advised by the PIU/PMU experts.
- (ix) Night time work, if any, shall be carried out after due authorization with adequate safety and security measures. Acoustic hood shall be used on equipment to reduce noise pollution.

SITE VISITS AND CONSULTATIONS

Phase-I Area Site Photos

SITE PHOTOS - TIRUNELVELI



Proposed LS-7 Azhaganeri



Proposed LS-8 at Senthimanagalam



Proposed LS-9 at Sindhupoonthurai



Proposed LS-10 at Kailasapuram



0Proposed LS-11 at Meenakshipuram



Existing STP at Ramayanpatti

SITE PHOTOS - TIRUNELVELI



Proposed PS-1 near Slaughter House



Existing PS-2 at Nainarkulam



Proposed LS-1 Srinivasa Nagar



Proposed LS-2 at Sathya Nagar



Proposed LS-3 at Kattabomman Street



Proposed LS-4 at Ambedkar Nagar



Proposed LS-5 at Karuppanthurai



Proposed LS-6 at Karaiyiruppu

Consultations during Transect Walks (Phase-I Area), August 2017

	Type of Business	Years in Business at Surveyed Place	Type of Structure	Caste Category	WHH	Monthly Income
1	Tea and snacks	35	Kiosk	OBC	-	9,000
2	Sugarcane juice stall	10	Movable, not on wheels	OBC	-	2,000
3		4	No structure, on road	General	-	5,000
4	Sugarcane juice stall	15	Movable, not on wheels	OBC	-	5,000
5	Sugarcane juice stall	25	Movable, not on wheels	OBC	-	4,000
6	Sugarcane juice stall	35	Movable, not on wheels	OBC	-	5,000
7	Ragi porridge stall	5	Movable Cart	OBC	-	5,000
8	Helmets	12	Movable Cart	OBC	-	4,000
9	Sugarcane juice stall	10	Movable, not on wheels	OBC	-	5,000
10	Tea, snacks & cool drinks	8	Kiosk	General	-	2,000
11	Sugarcane juice stall	25	Movable, not on wheels	OBC	-	4,000
12	Fruits	15	Movable Cart	OBC	-	5,000
13	Tyre shop	40	No structure, on road	OBC	-	12,000
14	Tyre shop	10	No structure, on road	SC	-	5,000
15	Tyre shop	4	No structure, on road	OBC	-	7,000
16	Tyre shop	5	No structure, on road	OBC	-	10,000
17	Tea and snacks	30	Movable Cart	OBC	-	3,000

WHH = women headed household

Location	No. of Participants	Participants	Topics Discussed	Issues Raised
All above affected persons were identified at SN High Road (Phase II)	Total=17 M=17 F=0	PPTA Team, TMC officials, TWAD officials	Issues related to open defecation, disposal of sewage and wastewater into roadside drains eventually polluting the natural streams and rivers; its health impacts Need for comprehensive underground drainage system in the city; Area covered by the project; Disturbance in traffic movement and to businesses during construction work; Assistance will be provided in continuing affected businesses at different location; No structure loss Compensation for lost income, if any	Delay in construction work Proper access provision to permanent shop/houses/structures Indicated willingness to shift to other locations.

FGD = focus group discussion, PPTA = project preparatory technical assistance, ROW = right-of-way, TMC = Tirunelveli Municipal Corporation, TWAD = Tamil Nadu Water Supply and Drainage.

Potential Impacts – Tirunelveli Phase-II Area¹













¹Mobile hawkers (having carts with wheels) will not be affected. Some structures including wares on display, will require assistance for shifting.





Proposed Sewer Network Street Photos – Tirunelveli





















Note: The DMS survey during detailed design will confirm whether any of the potential impacts identified can be avoided, whether there are any additional temporary impacts and how many will require shifting assistance.

LAND DETAILS

Phase II

(LS/P			TS					Classifica-		Requi-	Modules		Green Belts
S)	Ward	Block	No.	Land	Location		Ownership	tion	(m ²)	red	(m ²)	(m^2)	(m^2)
PS 1	AC	1	7	Vacant Land	Ward AC, Block 1, TS No. No. 7	Slaughter House	Tirunelveli Corporation	Dump Site	6650	3500	277	317	1638
PS 2	AJ	19	1415/ 1	Pumping Station	Ward AJ, Block 19, TS No No. 1415/1	Nainarkulam	Tirunelveli Corporation	Pumping Station	1335	146	146		
LS 1	Т	5	304/1	Govt.Waste Land	Ward T, Block 5, TS No. No. 304/1	Srinivasa Nagar	Tirunelveli Corporation	Urban Land Ceiling	3150	303	19	7.3	173
LS 2	U	4	109/2	Govt.Waste Land	Ward U, Block 4, TS No. No. 109/2	Sathya Nagar	Slum Clearance Board	Govt. excess land	3800	225	19	7.7	157
LS 3	W	11	1672	Govt.Waste Land	Ward W, Block 11, TS No. No. 1672	Kattabomman St.	Tirunelveli Corporation	Water Tank / Toilet	123	123	19	5.7	39
LS 4	AC	2	107	Govt.Waste Land	Ward AC, Block 2, TS No. No. 107	Pettai Thiruthu, Ambedkar Nagar	Tirunelveli Corporation	Public Toilet	600	264	19	7.3	156
LS 5	AM	5	59	Govt.Waste Land	Ward AM, Block 5, TS No. No. 59	Karuppan- thurai	PWD	Tamiraba- rani River		100	19	7.7	4
LS 6	В	11	40	Govt.Waste Land	Ward B, Block 11, TS No. No. 40	Karaiyiruppu	Revenue Land	Vacant Land	57	10	10		
LS 7	C	6	151	Govt.Waste Land	Ward C, Block 6, TS No. No. 151	Azhaganeri	Revenue Land	Peedam	48	10	10		
LS 8	D	1	42/1,2	Govt.Waste Land	Ward D, Block 1, TS No. No. 42/1,2	Senthimana- galam	Tirunelveli Corporation	Thoppu (Path Way)					
LS 9	J	2	46	Govt.Waste Land	Ward J, Block 2, TS No. No. 46	Sindhupoon- thurai	Tirunelveli Corporation	Cremation Ground	1214	150	19	6	8
LS 10	J	1	2/1B	Govt.Waste Land	Ward J, Block 1, TS No. No. 2/1B	Kailasapuram	PWD	Road					
LS 11		9	803	Govt.Waste Land	Ward AJ, Block 9, TS No. No. 803	Meenakshipu- ram	PWD	Tamiraba- rani River		10mx10 m	19	7.7	4

Source: TMC

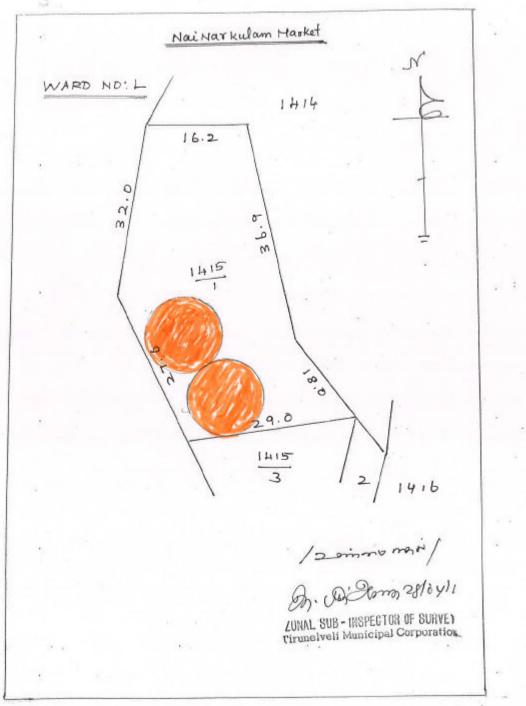
Note: This table provides summary translation of the land records.

LAND RECORDS Phase-I Area

் பாவட்டம் – திருநெல்வேலி நகரம் - திருநெல்வேலி வர்க்டு AC - பினரக் | T.S.INe 🗕 தீருநெல்வேலி PILLID பல்க் ஸ் டூ சா. வர் Slaughter House 8/3 8/5A 2/5 SB 190.B 1% 132. 3 81.8 126.8 6 5 ZONAL SUB - MISPECTOR OF SURVEY Firumelven Surveyal Corporation (PS-2- Slaught hair)

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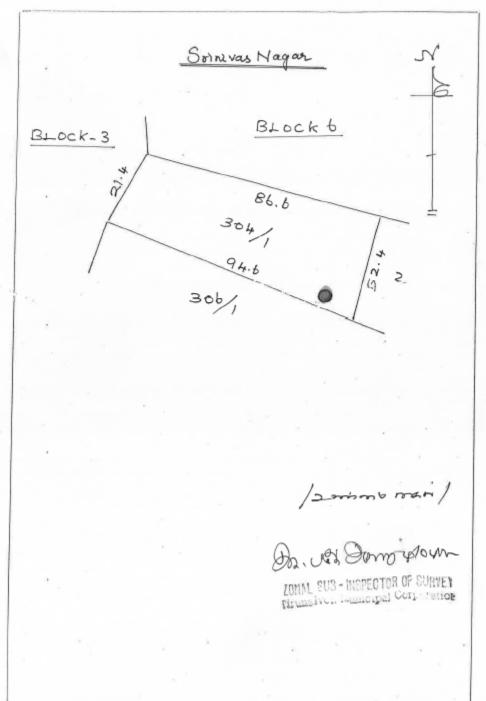


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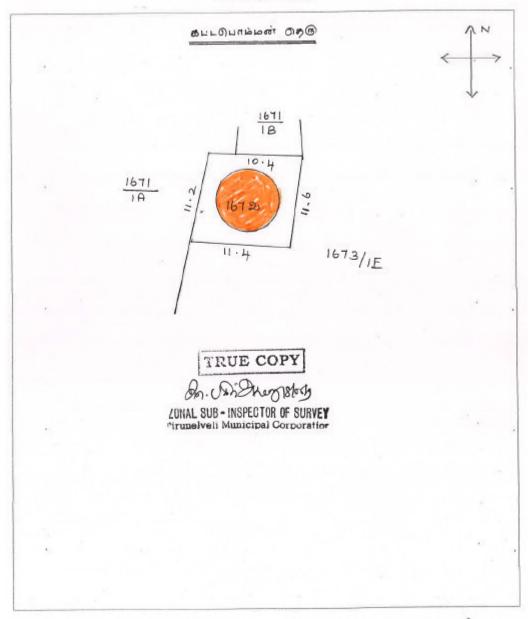
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T.S. NO: 1672





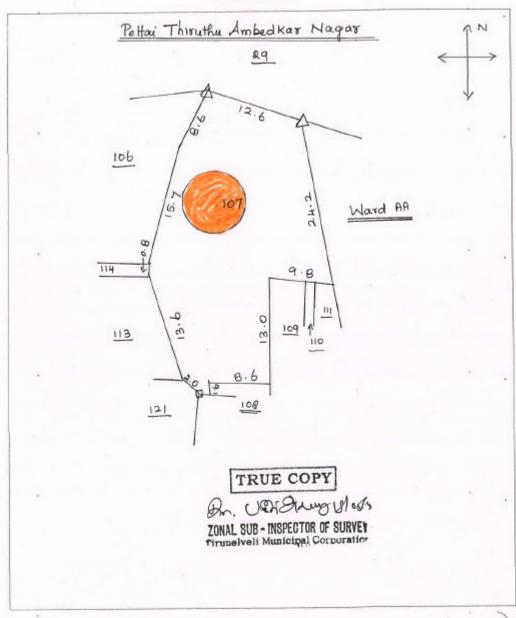
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T.S. NO: 107



(LS-4)

மாவட்டம் – திருவதல்வேலி வட்டம் – திருவதல்வேலி Survey Masual Chap XIII Rule 84 & 187

TOWN SURVEY

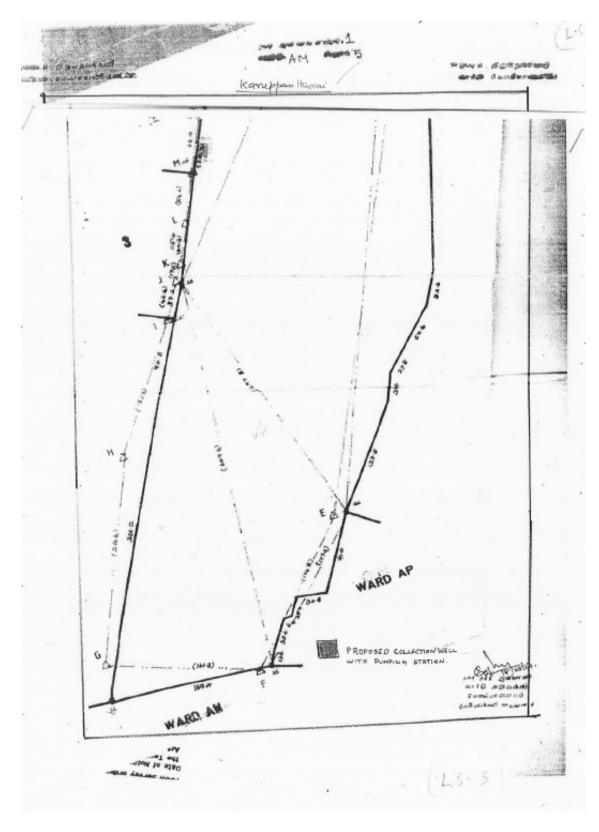
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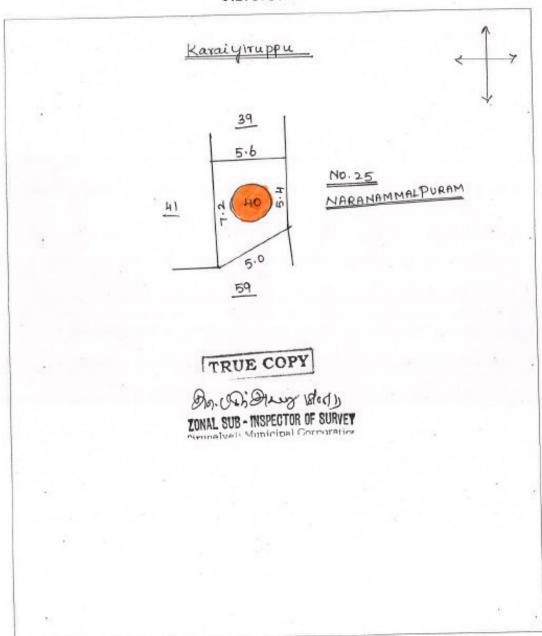
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TOWN SURVEY

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REMARKS

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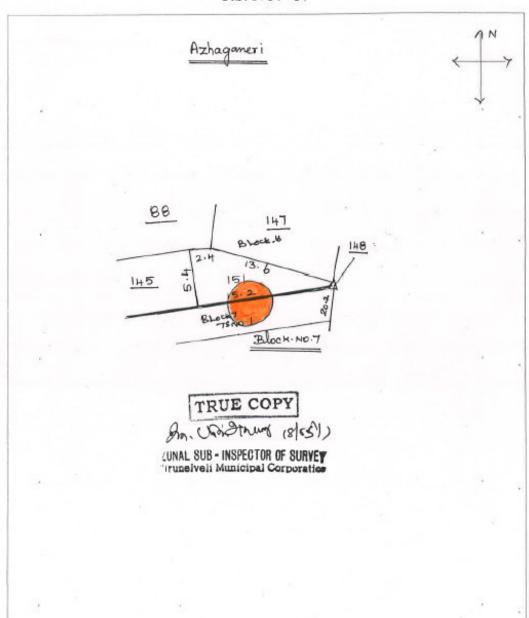
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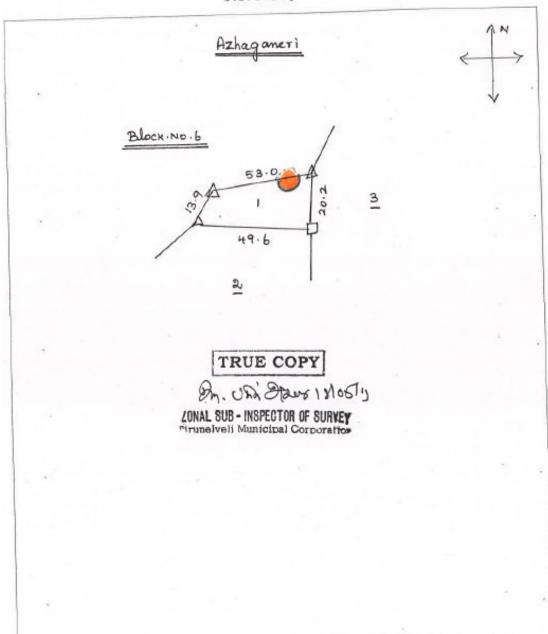
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மாவட்டம் – திருவதல்வேனி வட்டம் – திருவதல்வேலி Survey Manual Chap XIII Rule 84 & 187

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TOWN SURVEY

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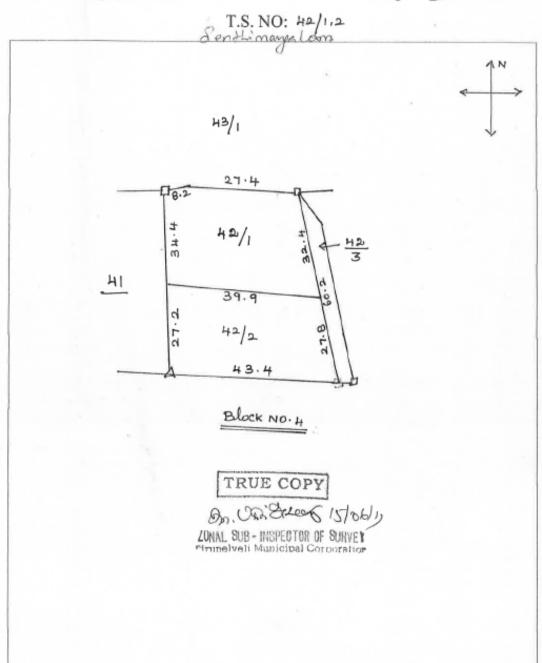
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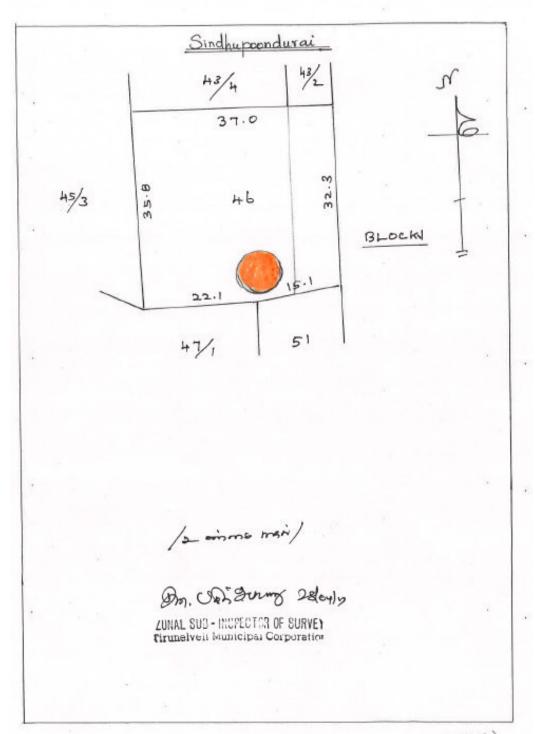
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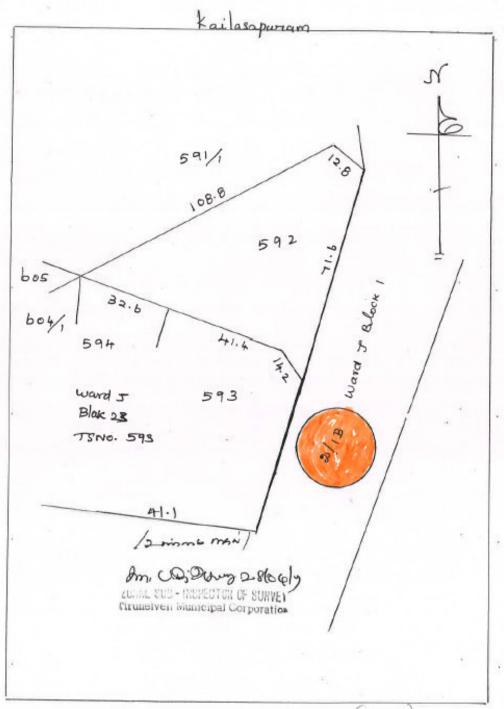
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TOWN SURVEY

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LONAL SUB - INSPECTOR OF SURVEY

Cirunelveli Municipal Corporation

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பாவட்டம் – திருநெல்வேலி வட்டம் – திருநெல்வேலி Survey Manual Chap XIII Rufe 34 & 187

TOWN SURVEY

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PROPOSED STRUCTURE OF SUBPROJECT INFORMATION DISCLOSURE LEAFLET

Up to 2-3 pages maximum.

- p - c - c - p - g - c - c - c - c - c - c - c - c - c	
Subproject Information	Description
Name of the subproject, Executing	
agency/Implementing Agency and city	
Proposed subproject technical details and project	
benefits	
Summary of subproject impacts	
Compensation and entitlements	
Resettlement Plan (Resettlement Plan) budget	
Describement Disprimplementation cohedule	
Resettlement Plan implementation schedule	
Consultation and disclosure requirements	
Implementation structure and GRM information	
•	
Contact numbers of CMSC, PIU, PMU	

CMSC = construction management and supervision consultant, GRM = grievance redress mechanism, PIU = program implementation unit, PMU = program management unit
Attach list of affected persons and Entitlement Matrix to this leaflet.

SAMPLE GRIEVANCE REGISTRATION FORM

(To be available in	n Tamil and English)				
grievance to provi clarification and fe Should you choo	mments regarding project ide their name and contact in eedback. Dose to include your person se inform us by writing/typin	formation to enable use	e encourage s to get in to that informa	e perso uch wit	ons with h you for
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