

Resettlement Plan

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

Prepared by Tamil Nadu Urban Infrastructure Financial Services Ltd. 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

	Page
EXECUTIVE SUMMARY	i
I. RESETTLEMENT PLAN	1
A. Subproject Description	1
B. Scope of Land Acquisition and Resettlement	2
C. Socioeconomic Information And Profile	9
D. Information Disclosure, Consultation and Participation	10
E. Grievance Redress Mechanism	13
F. Legal Framework	16
G. Entitlements, Assistance and Benefits	17
H. Resettlement Budget and Financing Plan	19
I. Institutional Arrangements and Implementation Schedule	19
J. Monitoring and Reporting	25

APPENDIXES

Appendix 1: Details of Potentially Affected People

Appendix 2: Safety Measures For Pipelaying – Sample Template

Appendix 3: Site Visits And Consultations

Appendix 4: Land Records

Appendix 5: Proposed Structure of Subproject Information Disclosure Leaflet

Appendix 6: Sample Grievance Registration Form

EXECUTIVE SUMMARY

1. **Subproject Scope.** The Tamil Nadu Urban Flagship Investment Program (TNUFIP) is designed under the multitranche financing facility (MFF) modality of 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. The proposed subprojects for Phase-III in Tirunelveli will cover 31 census wards; fully or partially and will cater to projected population of 366,400 for the intermediate design year of 2035. Subprojects comprise: (i) laying of around 417 kilometers (km) of sewer network of double walled corrugated (DWC)/reinforced cement concrete (RCC) pipes ranging from 200-700 mm dia; (ii) laying of 40km of pumping mains of 150-450 millimeter (mm) dia; (iii) construction/rehabilitation of three sewage pumping stations; and (iv) construction of 18 sewage lift stations.

2. **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. Additional new STP of 34 million liters per day (MLD) is within the existing STP premises and no additional land acquisition is required. 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 (August and December 2017). Based on this, a total of 37 roadside movable/transitory businesses that are currently within ROW are identified as potentially (temporarily) affected. These businesses are mainly (70%) tea/food/juice related stalls and vegetable/fruit stalls. The remaining (30%) sell other items like helmets, tyres, cloth, vessels, paint etc. or have small petty businesses. 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 ₹148 per day and overall average for all affected persons is ₹307 per day.

3. **Recommended Actions.** A draft resettlement plan has been prepared for Tirunelveli Phase-III subproject components to mitigate temporary impacts envisaged during construction/pipe laying. This Resettlement Plan is in line with the ADB's Safeguard Policy Statement (SPS), 2009 and Resettlement Framework prepared for TNUFIP. A total resettlement budget (only compensation and grievance redress mechanism or GRM costs) is estimated at ₹1.18 million (approximately \$17,750) 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 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 updating and implementation of Resettlement Plan. Program management unit's Social Project Officer (PMU's SPO) is responsible for approval and implementation monitoring of RP. 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 III covers Palayamkottai administrative zone (full), Melapalayam administrative zone (partial) and Thachanallur administrative zone (partial). The Phase-III will cover 31 out of total 55 wards under Tirunelveli Municipal Corporation and will cater to 3,66,400 population for the intermediate design year of 2035. Phase-III subprojects comprises of the following components:

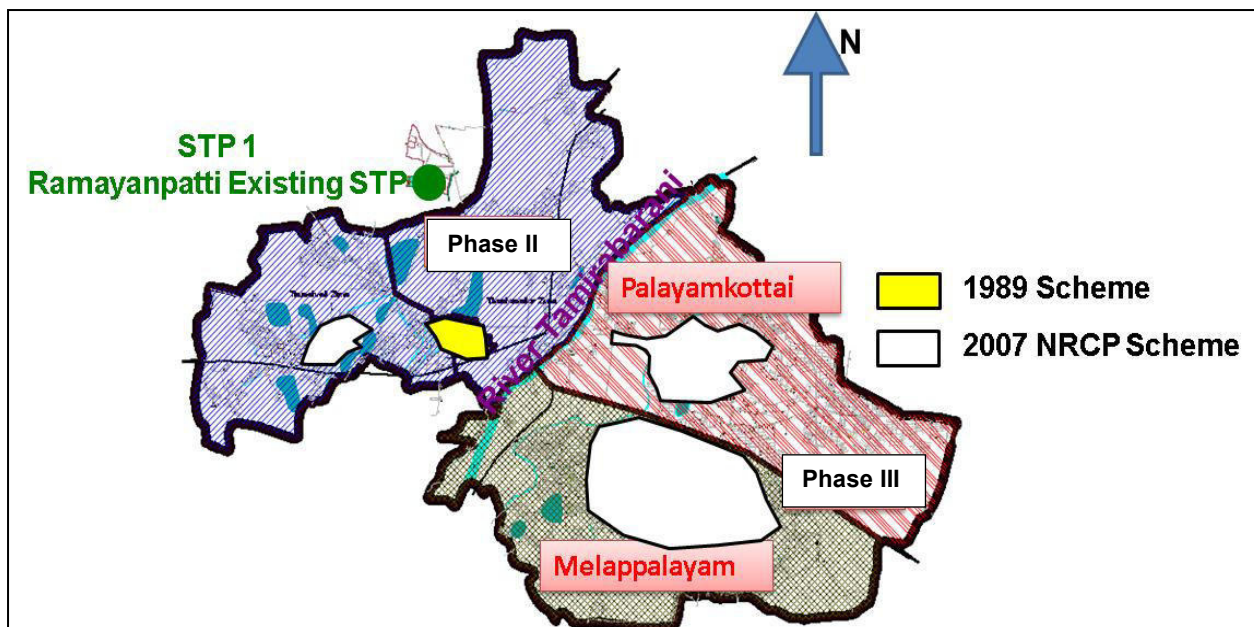
(ii) Phase III

- a. Laying of around 417 kilometers (km) of sewer network of double walled corrugated (DWC)/ reinforced cement concrete (RCC) pipes ranging from 200-700 millimeter (mm) dia;
- b. Laying of 40 km of pumping mains of 150-450 mm dia;
- c. Construction/Rehabilitation of three sewage pumping stations; and
- d. Construction of 18 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. An additional STP of 34 MLD is proposed at the same location for treatment of sewage from Phase-III. This Draft Resettlement Plan is prepared for proposed sewerage subprojects under Phase III in 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 Phase-III subprojects 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 (December 2017) were conducted for roads where temporary impacts were identified, indicating potential temporary income loss to roadside 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 3 provides summary of transect walk surveys, which confirm that the impacts of sewer laying 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-III subproject can be classified as Involuntary Resettlement Category "B". Resettlement Plan preparation is required for Tirunelveli Phase-III subproject components in line with the ADB SPS, 2009 and Resettlement Framework prepared for TNUFIP. This document is a Resettlement Plan for Tirunelveli Phase-III 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.

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 III

	Proposed Subproject Components	Scope of Land Acquisition and R&R	Summary
1	<u>Sewer Network</u> . Laying of total 417km 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 (ROW). 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 37 affected persons.	Temporary economic impacts to 37 vendors
2	<u>Pumping Mains</u> . Laying of 40km of new pumping main of cast iron pipes ranging from 150-700 mm 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	<p><u>Pumping Stations (PS)</u>. Phase III: Construction of new sewage pumping station near Kumaresan Nagar, Sai baba colony and improvement to existing sewage pumping stations at Vanarapettai and Kuruchi.</p> <p>(Refer Appendix 3, 4 & 5 for layout drawings, site photos, ownership records and enter upon permission or EUPs/No Objection Certificates or NOCs).</p>	<p>Phase-III</p> <p><u>Pumping Station-6 (Proposed)</u>. The proposed PS-6 is located at Kumaresan Nagar, Sai baba colony within residential area. The land belongs to Tirunelveli Corporation and classified as general purpose use (TS No. BT-49, Block 28, Ward 19). Some encroachment was seen on one side which was stopped long back by the corporation and needs to be demolished. The site is big. By leaving aside the encroached area; the remaining area is adequate for SPS construction. Currently the site is used as playground by nearby residents. Some benches indicated that people currently use it as park or play area. If SPS is constructed on one side of the site, the remaining area can still be used a park or play area. No land acquisition and R&R envisaged.</p> <p><u>Pumping Station-5 (Existing)</u>. The existing PS-5 is located at Kuruchi. Proposed rehabilitation can be accommodated within existing premises. The land belongs to TMC and no land acquisition and R&R envisaged (TS No. 5, Block 8, Ward AV-30).</p> <p><u>Pumping Station-4 (Existing)</u>. The existing PS-4 is located at Vanarapettai. Proposed rehabilitation can be accommodated within existing premises. The land belongs to TMC and no land acquisition and R&R envisaged (TS No. 340/2C, Block 5, Ward AY-9).</p>	No involuntary resettlement/Indigenous Peoples impacts anticipated

	Proposed Subproject Components	Scope of Land Acquisition and R&R	Summary
4	<p>Lift Stations (LS). Construction of 18 new lift stations at various locations of 2.5-3.0 m. collection well diameter.</p> <p>(Refer Appendix 3, 4 & 5 for layout drawings, site photos, ownership records and EUPs/NOCs).</p>	<p>Phase-III</p> <p>Lift Station 12. The site is located at Thokapiyar street, Kokirakulam. The site is located near slum, along the river and in front of public toilet. The land belongs to TMC and classified as waste land (TS No 1113, Block 13, Ward AY). No land acquisition and R&R envisaged.</p> <p>Lift Station 13. The site is located at Thirukurippu Thondar Street at the end of the road which leads to river and public toilet which is in use. The entire area land (slum) belongs to revenue department and reported to be encroached from many years (TS No 88/1, Block 2, Ward AY). NOC/EUP is required for the construction of LS. No land acquisition and R&R envisaged.</p> <p>Lift Station 14. The site is located at Ulgaammankovil street at the end of road in the residential layout. The site belongs to TMC and located on the outskirts of the city; at the edge of municipal boundary (TS No 30/3&30/9, Block 8, Ward AZ). No land acquisition and R&R envisaged.</p> <p>Lift Station 15. The site is located at Subramanya Nagar near notified slum and adjacent to public toilet. The site belongs to TMC and Palatam irrigation channel flows adjacent to it (TS No 1232, Block 14, Ward BL). No land acquisition and R&R envisaged.</p> <p>Lift Station 16. The site is located at Senthil Nagar within dense residential area. The site belongs to TMC (TS No 70, Block 1&29, Ward BJ). No land acquisition and R&R envisaged.</p> <p>Lift Station 17. The site is located at Kilanatham Melur Road along water supply head works and chlorinator. The site belongs to TMC and is adjacent to State Highway on one side and river on other side. The site is surrounded by fertile agricultural lands in the nearby vicinity (TS No 23, Block 2, Ward BB). No land acquisition and R&R envisaged.</p> <p>Lift Station 18. The site is located at Thiruvannanathapuram within public toilet premise. The site situated within the notified slum and across the road are agricultural lands. The site belongs to TMC</p>	<p>No involuntary resettlement/Indigenous Peoples impacts anticipated</p>

	Proposed Subproject Components	Scope of Land Acquisition and R&R	Summary
		<p>(TS No 75, Block B, Ward BB). No land acquisition and R&R envisaged.</p> <p>Lift Station 19. The site is located at Kakkan Nagar, new colony along the road. Public Water point is present at the identified location which needs to be shifted to other side of the road. No land acquisition and R&R envisaged.</p> <p>Lift Station 20. The site is located in Thimmarajapuram area, Andhal street within public toilet premises. The site belongs to TMC and classified as water body (TS No 32/1, Block 21, Ward BC). No land acquisition and R&R envisaged.</p> <p>Lift Station 21. The site is located in Raghumat Nagar at dead end road within well-developed residential area. The site is also near national highway. The site belongs to TMC (TS No 1, Block 26, Ward BF). No land acquisition and R&R envisaged.</p> <p>Lift Station 22. The site is located in Police Colony within well-developed residential area. An old OHT and sump and new operating OHT are situated within the site. The site is big and adequate area is available for construction of LS-22. The site belongs to TMC (TS No 47, Block 26, Ward BC). No land acquisition and R&R envisaged.</p> <p>Lift Station 23. The site is located in Saranya Nagar within common park area and kids park. The site is big and construction of LS can be accommodated along with existing park infrastructure with adequate green belt. This residential layout was formed before 1993 and as per rules of that time the landowner was allowed to develop and maintain the common areas/parks. As per the Rules made later, landowner has to transfer common area sites to TMC during sanctioning of layouts. Since the layout was made under old rules, the ownership of the land is still within the private party though the layout mentions this as common site. The land ownership needs to be transferred with the TMC. (TS No 146, Block 8, Ward BR). No land acquisition and R&R envisaged in transfer of land as indicated by TMC officials.</p>	<p>No involuntary resettlement/Indigenous Peoples impacts anticipated</p>

	Proposed Subproject Components	Scope of Land Acquisition and R&R	Summary
		<p>Lift Station 24. The site is located in IOB Colony within well-developed residential area and adjacent to railway track. This residential layout was formed before 1993 and as per rules of that time the landowner was allowed to develop and maintain the common areas/parks. As per the Rules made later, landowner has to transfer common area sites to TMC during sanctioning of layouts. Since the layout was made under old rules, the ownership of the land is still within the private party though the layout mentions this as common site. The land ownership needs to be transferred with the TMC. (TS No 94, Block 18, Ward BT). No land acquisition and R&R envisaged in transfer of land as indicated by TMC officials</p> <p>Lift Station 25. The site is located in Housing Board Colony, VM Chatram area. Old borewell and pump room are located in site; not in use as water is not supplied from it. The site belongs to TMC (TS No 1, Block 17, Ward BF). No land acquisition and R&R envisaged.</p> <p>Lift Station 26. The site is located in Achimadam area within notified slum area. Borewell and pump room is operating within site; however adequate area is available for construction of LS. Fencing of site is required to avoid encroachment. The site belongs to TMC (TS No 20, Block 43, Ward BQ). No land acquisition and R&R envisaged.</p> <p>Lift Station 27. The site is located at Melanatham within triangular portion where two roads meet. Proper compound wall and buffer need to be provided to demarcate the site and provide sight away from nearby residential area. One old hand pump, currently in use, is present at identified location to take water from low pressure pipeline. This needs to be shifted as currently being used by nearby residents. The site belongs to TMC (Ward 38). No land acquisition and R&R envisaged.</p> <p>Lift Station 28. The site is located at Karunakumal and belongs to revenue department (TS No 10, Block 23, Ward AQ). The Land is classified as open land and generally given for rent (e.g. exhibition etc.) for private people. Small borewell with pump room and tank are present at the site which is used by nearby slum households as</p>	<p>No involuntary resettlement/Indigenous Peoples impacts anticipated</p> <p>Loss of common property resources, a public handpump, which needs to be shifted to nearby suitable location.</p>

	Proposed Subproject Components	Scope of Land Acquisition and R&R	Summary
		<p>public tap. NOC/EUP is required for the construction of LS. land acquisition and R&R envisaged.</p> <p>Lift Station 29. The site is located at Anbu Nagar along railway track. Existing pumping station is located at site which is in working condition. Adequate land is available for the construction of LS. The site belongs to TMC (TS No 82, Block 5, Ward BP). No land acquisition and R&R envisaged</p>	No involuntary resettlement/Indigenous Peoples impacts anticipated
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	<u>Sewage Treatment Plant (STP)</u> . Construction of 34 MLDSTP at Ramayanpatti near existing STP.	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. The present STP at Ramayanpatti however will not able to cater to the flow from the eastern side (Phase III) area and hence new STP of 34 MLD is proposed for Phase III at the same site. 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). TMC solid waste management (dumping site, recycling units etc.) occupies some part of the remaining area. The balance land needs to be utilized for new STP and adequate area is available for construction of the proposed facility.	No involuntary resettlement/Indigenous Peoples impacts anticipated

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

C. Socioeconomic Information and Profile

9. Transect walks identified a total of 37 affected persons in Phase III area whose business will be temporarily affected during pipe laying, as they carry their activities within/very close to ROW. These businesses are mainly (70%) tea/food/juice related stalls and vegetable/fruit stalls. The remaining sell other items like helmets, tyres, cloth, vessels, paint etc. or have small/petty businesses. 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. Around 38% of the affected businesses have movable structures while 54% affected persons sit on roads or have extended their activities on roads for selling their goods. Around 8% affected persons with kiosks and/or temporary shelter may require shifting assistance. Structures that are extended on roads can be easily dismantled.

10. Street vending is quite a common practice in many cities of the state including Tirunelveli and close to 57% of the affected persons indicated that they are doing their business at present location for more than 10 years. An additional 16% indicated that they have this fixed location for more than five years while the remaining 27% said they have moved to their respective places in last 2-5 years.

11. In terms of the socioeconomic background, a majority of the potentially affected vendors appear to be poor. About 24% earn income between ₹2,500-5,000 while as many as 60% earn between ₹5,000-10,000. Only 16% earn more than ₹10,000. Average monthly income works out at ₹7,986 with minimum at ₹3,000 and maximum at ₹15,000.³ Considering work week of six days (26 days per month), average daily income is estimated at ₹148 for the 17 BPL affected persons and ₹307 for all affected persons. The overall average is lower than the notified minimum wage rate at ₹643.

12. None of the affected persons belong to general (upper) caste category, a small percentage of households (8%) belong to scheduled castes, while the remaining belong to other backward classes (OBC-92%). No affected person belonging to the scheduled tribe category was 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. Vulnerable affected persons (10 out of 37 affected persons) comprise 27% of the total surveyed affected persons. Households who use common property resource (Hand pump) at LS-27 location are mainly slum households or lower income class households.

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

³ As per data published by the Planning Commission, Government of India, in 2011-2012, poverty line in urban Tamil Nadu was ₹993 per capita per month. On adjusting for inflation, this works out to ₹1,406 per capita per month in 2017 or a monthly household income of ₹5,540 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.

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.

measurement survey (DMS) and compensated at replacement cost, in line with the principles of the Resettlement Framework.

Figure 2: Type of Business

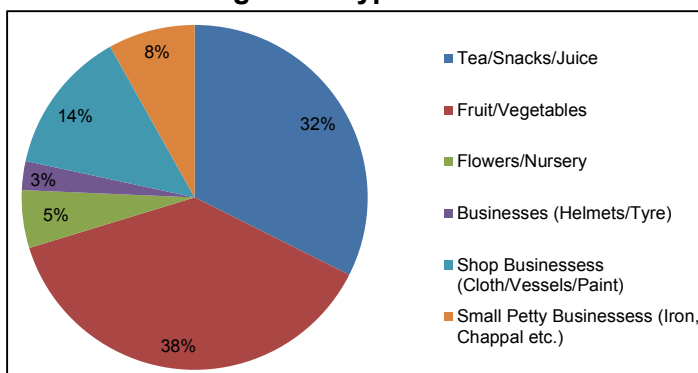


Figure 3: Type of Structure

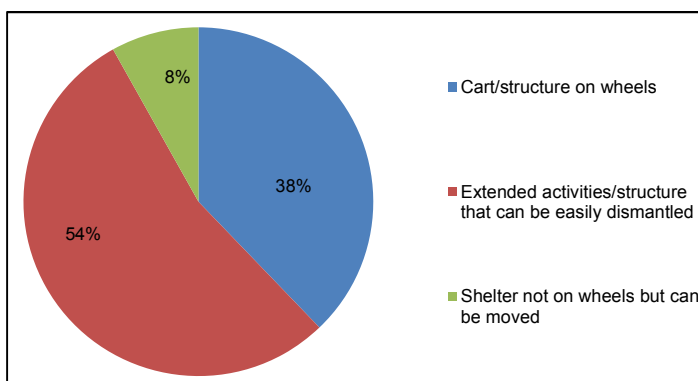
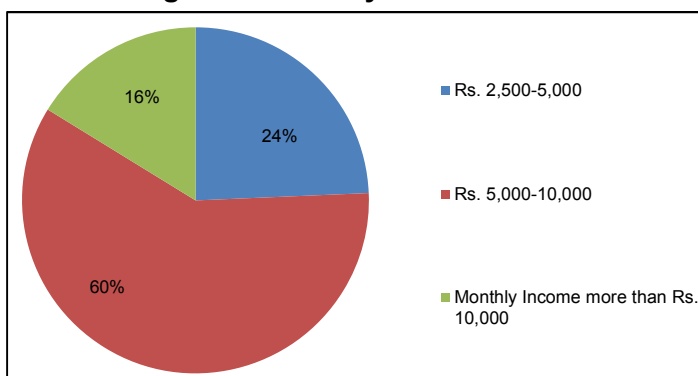


Figure 4: Monthly Household Income



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.

15. 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) Social Project Officer (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

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

CMWSSB = Chennai Metropolitan Water Supply and Sewerage Board, PPTA = project preparatory technical assistance, TNUISL = Tamil Nadu Urban Infrastructure Financial Services Ltd., TWADB = Tamil Nadu Water 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 socio-economic 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 plans 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 5.

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 grievance redress committee (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-filing 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.

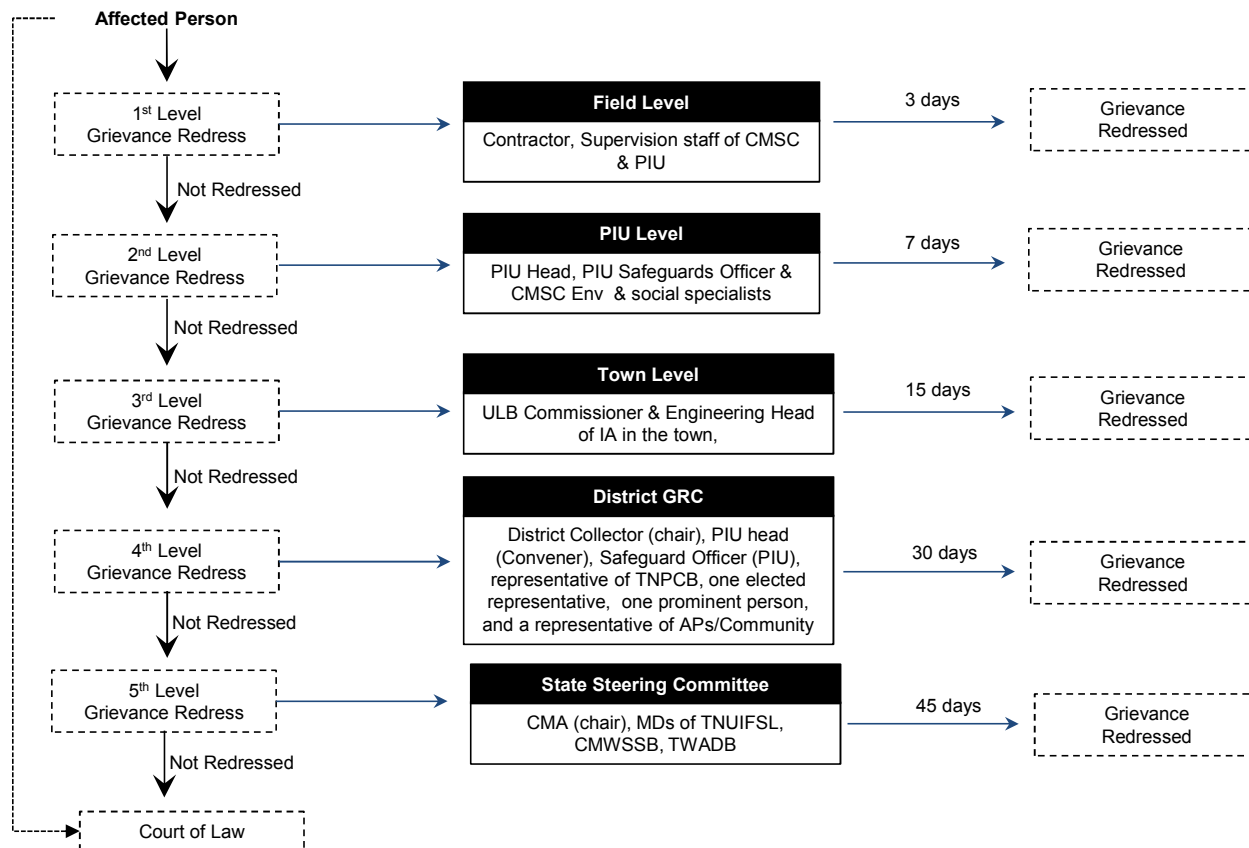
27. **State level steering committee** will include Commissioner of Municipal Administration as chair, member include managing directors of Tamil Nadu Urban Infrastructure Financial Services Ltd. (TNUIFSL), Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB), TWAD Board and others as applicable.

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.

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 rehabilitation⁵, 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 complaint 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

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

date these were effected and final outcome will be kept by ULB/PIU (with the support of CMSC) and submitted to PMU.

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:

- (i) 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 policies 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 sub-projects are:

- (i) 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 1) 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

No.	Impact Category	Entitlements	Explanations
Unforeseen Impacts^a			
A	Unforeseen Impacts	Unforeseen impacts encountered during implementation will be addressed in accordance with the principles of this resettlement framework.	-
Temporary Economic Impacts during implementation			
A	Temporary economic impacts	Compensation for loss of income for the duration of impact based on net income worked out as per IT returns or based on notified minimum wage rates, whichever is higher.	Advance notice provided to temporarily affected persons once contractor's work plans are finalized, with minimum 7 working days.
Impacts on Community Assets			
A	Community Assets	Wherever possible the community assets will be relocated/ restored in consultation with community. When the relocation/restoration of the community assets are not feasible, they will be replaced/provided afresh.	-

^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 7 days before compensation. In summary, temporarily affected persons will be provided with:

- (i) 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.

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 entitlement matrix will be revised at the rate of 5% per annum starting from financial year 2019-20.

H. Resettlement Budget and Financing Plan

42. The resettlement budget for Tirunelveli subproject is estimated at ₹1.18 million. 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 37 affected persons for 25 days ^b	37	25 days	643	594,775
2	Loss of Common Property Resources		LS		25,000
3	Surveys, consultations, grievances and awareness				
	DMS Survey & updating for Resettlement Plan ^c		LS		200,000
	Consultation, grievance redress, disclosure ^d		LS		250,000
	Subtotal				1,069,775
	Contingency @ 10%				106,978
	Grand Total (₹)				1,176,753

Note:

^a Minimum wage rate estimated based on:

Weblink: [HTTP://CMS.TN.GOV.IN/SITES/DEFAULT/FILES/GO/LABEMP_E_62_2017_2D_PDF.PDF](http://cms.tn.gov.in/sites/default/files/go/labemp_e_62_2017_2d_pdf.pdf)

^bFor 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.

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

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

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 losses) who do not have bank accounts.

I. Institutional Arrangements and Implementation Schedule

44. 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 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) 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.

46. **Program Management Unit.** PMU will (i) monitor the Project and have overall 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 guiding the overall implementation of the Program. 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 the 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

⁷The 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.

⁸If 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.

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 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
1. 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 - Monitoring, reporting and corrective action planning	All staff and consultants involved in the project At PMU, Chennai First year of the launch of TNUFIP.

Description	Target Participants and Venue
2. Resettlement Plan implementation (2 days; 2 times during implementation with interval of 1 year in-between) - Roles and responsibilities - Resettlement Plan components and stages in implementation - Construction schedules and timelines - Public relations - Consultations - Grievance redress - Monitoring and corrective action planning - Reporting and disclosure - Timely documentation	All staff and consultants involved in the subproject All contractors prior to award of contract At each PIU
3. Experiences and best practices sharing (1 day) - Experiences on Resettlement Plan implementation - Issues and challenges - Best practices followed	All staff and consultants involved in the project All contractors All consultants At PMU Chennai

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

Table 6: Institutional Roles and Responsibilities

Activity	Responsible Agency
Subproject Initiation Stage	
Finalization of sites for sub-projects	PIU
Disclosure of proposed land acquisition and sub-project details by issuing Public Notice	PIU
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 acquisition and for associated assets	PIU/ULB and as per 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 and other stakeholders	PIU/ULB
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	PIU/ CMSC

Activity	Responsible Agency
rehabilitation activities	
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								
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, GRC = grievance redress committee, 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 POTENTIALLY AFFECTED PEOPLE

	Type of Business	Years in Business at Surveyed Place	Type of Structure	Caste Category	WHH	Monthly Income
1	Fruits stall	10	Movable Cart	OBC	-	10,000
2	Nursery Plant	4	No structure, on road	OBC	-	6,000
3	Fruits	4	Movable Cart	OBC	-	8,000
4	Fruits	5	No structure, on road	OBC	-	15,000
5	Helmets, Specs	15	No structure, on road	OBC	-	6,000
6	Cloth Shop	2	Movable Cart	OBC	-	5,000
7	Fruits Shop	1	Movable Cart	OBC	-	5,000
8	Chappel shop	10	Kiosk/ Movable, not on wheels	SC	-	6,000
9	Ragi poridge	13	Movable Cart	OBC	-	6,000
10	Tea shop	3	Kiosk/ Movable, not on wheels	OBC	-	6,000
11	Hotel	7	No structure, on road	OBC	-	10,000
12	Snacks	5	No structure, on road	OBC	-	15,000
13	Fruits	1	Movable Cart	OBC	-	3,000
14	Sugarcane Juice	25	No structure, on road	OBC	-	6,000
15	Fruits	1	Movable Cart	OBC	-	6,000
16	Paint Store	20	No structure, on road	OBC	-	15,000
17	Vegetable shop	15	No structure, on road	OBC	-	15,000
18	Vegetable shop	10	No structure, on road	OBC	-	10,000
19	Tiffin Center	9	No structure, on road	OBC	-	8,000
20	Flower	30	No structure, on road	OBC	-	15,000
21	Petty shop	10	No structure, on road	OBC	-	10,000
22	Vessels Store	25	No structure, on road	OBC	-	15,000
23	Provision store	15	No structure, on road	OBC	-	10,000
24	Juice stall	1	Movable Cart	OBC	-	4,000
25	Cucumber	18	No structure, on road	SC	-	4,000
26	Cucumber	25	No structure, on road	SC	-	3,000
27	Groundnut	10	Movable Cart	OBC	-	3,000
28	Hotel	30	No structure, on road	OBC	-	9,000
29	Tea Shop	10	No structure, on road	OBC	-	10,000
30	Fruits	25	No structure, on road	OBC	-	7,500
31	Fruits	15	Movable Cart	OBC	-	9,000
32	Fruits	2	Movable Cart	OBC	-	6,000
33	Corn Business	5	Movable Cart	OBC	-	3,000
34	Tea shop	10	Kiosk/ Movable, not on wheels	OBC	-	9,000
35	Cloth store	1	No structure, on road	OBC	-	6,000
36	Iron Shop	7	Movable Cart	OBC	-	5,000
37	Tiffin Center	17	Movable Cart	OBC	-	6,000

SAFETY MEASURES FOR PIPELAYING–SAMPLE TEMPLATE

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 (mini digger)	2	200	Flagmen at both ends plus no parking sign for 100m on either end	Night time working may be 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-	-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.	-do-
	2	50	150	Manual	0.5	50	-do-	-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 III Area Site Photos

SITE PHOTOS – TIRUNELVELI PHASE-III

	
LS-15 at Subramanya Nagar	LS-16 at Senthil Nagar
	
LS-17 at Kilanatham Melur Road	LS-18 at Thiruvannanathapuram
	
LS-20 at Thimmarajapuram area, Andhal street.	LS-19: Kakkann Nagar, New colony

SITE PHOTOS – TIRUNELVELI PHASE-III	
	
LS-22 at Police Colony	LS-21 at Raghumat Nagar, near NH
	
LS-25 at Housing board colony, VM Chatram area	LS-26 at Achimadam area
	
LS-23 at Saranya Nagar	LS-24 at IOB Colony
	
Proposed SPS-7 at Kumaresan Nagar	LS-29 at Anbu Nagar

SITE PHOTOS – TIRUNELVELI PHASE-III



LS-28 at Karunakumal



LS-27 at Melanatham



LS-14 at Ulgaamman Kovil street



LS-12 at Thokapiyar street, Kokirakulam



LS-13 at Thirukurippu Thondar Street





Existing SPS-6 at Kurichi



Existing SPS-4 at Vanarapettai



Existing STP Ponds

SITE PHOTOS – TIRUNELVELI PHASE-III	
	
Proposed STP at Ramayanpatti	

Consultations during Transect Walks (Phase-III Area), December 2017

Location	No. of Participants	Topics Discussed*	Issues Raised
FGD-1 Melappalayam Zone - Xaviers Colony in Kamaraj Nagar	Total=11 M=9, F=2	This is mainly residential area and households expressed willingness to get connected new sewerage system. The shops in this area are within ROW but road is sometimes encroached for display of items.	<ul style="list-style-type: none"> Indicated willingness to cooperate during construction work; however work should not be delayed and road should be restored immediately. Expressed willingness to support as the project as it is beneficial to the entire city.
FGD-2 Melappalayam Zone - Anna Street	Total=3 M=3, F=0	Participants have encroached ROW with extended structures and indicated willingness to remove when construction work starts.	<ul style="list-style-type: none"> Expressed that they should be informed well in advance about the construction work as it will affect their business Proper access needs to be provided in case major delay in construction work. Wished to have alternate traffic arrangements during construction work so that business will not get affected.
FGD-3 Palayamkottai Zone - Ward No 17, Rahamath Nagar	Total=4 M=3, F=1	Running businesses from many years but willing to support the project	<ul style="list-style-type: none"> Expressed willingness to support as the project as it is beneficial to the entire city.
FGD-4 Palayamkottai Zone - Ward No 16 Tiruchendur Road	Total=8 M=5, F=3	Participants are this area indicated that they have taken loan and their businesses should not be affected due to construction work. They are running shops in this area for long time and have established business with great effort.	<ul style="list-style-type: none"> They are ready to move temporarily to other location but not sure where business can operate better. Expressed that corporation should help them in this regard.
FGD-5 Thatchanallur Vannarpettai, Trivandrum Road.	Total=5 M=3, F=2	All participants indicated that they are operating at this place from many years and this is the only income source for them. They will be affected if the income is disturbed even temporarily.	<ul style="list-style-type: none"> They are ready to move temporarily to other location but not sure where business can operate better. Expressed that corporation should help them in this regard.

FGD = focus group discussion, ROW = right-of-way.

Potential Impacts – Tirunelveli Phase-III Area¹



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



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 III

	LS/PS	Name of the Location	Land FMB Details - Received			Land				Proposals			Set backs	
			Ward No.	Block no.	Survey no.	Owner-ship	Classifica-tion	Availa-ble	Requi-red	Module s	Path-ways	Green Belts	Within the Land	Outside Land
1	LS12	Tholkapiyar Street	AY	13	1113	Corporation	Pound Site	164 m ²		19 m ²	1.6 m ²	106 m ²	Around 1m (Avg) along the Proposed Boundary	North : Residential buildings adjoining to the site. South : Residential buildings East : Residential buildings West : 6m wide road
2	LS13	Thirukurippu Thondar Street	AY	2	88/1	Revenue	Thoppu Site		10 x 5m	19 m ²			Around 1m (Avg) along the Proposed Boundary	North : Residential buildings South : 4m wide road East : Residential buildings West : Toilet Building
3	LS14	Ulagaamman Kovil Street	AZ	8	30/9	Corporation	Road							A Road side lifing station is proposed.
4	LS15	Maruthi Nagar	BL	14	1232	Corporation	Poonthota m site		10 x 5m	19 m ²			Around 1m (Avg) along the Proposed Boundary	North : Vacant Land South : Public Toilet East : Vacant Land West : 3.5m wide road

	LS/PS	Name of the Location	Land FMB Details - Received			Land				Proposals			Set backs	
			Ward No.	Block no.	Survey no.	Owner-ship	Classifica-tion	Availa-ble	Requi-red	Module s	Path-ways	Green Belts	Within the Land	Outside Land
5	LS16	Senthil Nagar	BJ	29	70	Corporation	Road							A Road side lifing station is proposed.
6	LS17	Kilanatham Melur Road	BB	2	23	Corporation	Road							A Road side lifing station is proposed.
7	LS18	Tiruvanathapuram	BB	B	75	Corporation	Panchayat Orakuli			10 m ²				North: Public Toilet South : 3.5m wide road East : Public Toilet West : 3.5m wide road
8	LS19	Kakkan New Colony	BC	22	38	Corporation	Road							A Road side lifing station is proposed.
9	LS20	Andal Nagar	BC	21	32/1	Corporation	Public Toilet		10 x 5m	19 m ²			Around 1m (Avg) along the Proposed Boundary	North: Public Toilet South: 4m wide road East: Public Toilet West : Vacant Land
10	LS21	Ragumath Nagar	BF	26	1	Corporation	Road							A Road side lifing station is proposed.
11	LS22	Police colony	BC	26	47	Corporation	OHT site	1590 m ²	207 m ²	19 m ²	6.7 m ²	134 m ²	Around 3m (Avg) along the Proposed Boundary	North: 4m wide road South: 6m wide road East: 4m wide road West: 5m wide road

	LS/PS	Name of the Location	Land FMB Details - Received			Land				Proposals			Set backs	
			Ward No.	Block no.	Survey no.	Owner-ship	Classifica-tion	Availa-ble	Requi-red	Module s	Path-ways	Green Belts	Within the Land	Outside Land
12	LS23	Saranya Park	BR	8	146	Arumugam muthaliyar	Vacant Land	2802 m ²	207 m ²	19 m ²	6.7 m ²	134 m ²	Around 3m (Avg) along the Proposed Boundary	North: 3.5m wide road South: 4m wide road East: 3.5m wide road West: Vacant Land
13	LS24	IOB Colony	BT	18	94	Vallinayagam	Vacant Land	956 m ²	207 m ²	19 m ²	6.7 m ²	134 m ²	Around 3m (Avg) along the Proposed Boundary	North: 4m wide road South : 3m wide road East : 3m wide road West : Vacant Land
14	LS25	V.M.Chatram (Housing Board Colony)	BQ	20	165	Tamilnadu Housing Board colony	Ex.Well site	500 m ²	10 x 5m	19 m ²			Around 1m (Avg) along the Proposed Boundary	North: Ex.pump room South :Residential Building East : 5m wide road West : Residential building
15	LS26	Achimadam	BQ	43	20	Corporation	Ex.Well site	292 m ²	10 x 5m	19 m ²			Around 1m (Avg) along the Proposed Boundary	North :Residential Buildings South :Ex.Well East : Vacant Land West : 6m wide road
16	LS27	Melanatham				Corporation	Road							A Road side lifing station is proposed.

	LS/PS	Name of the Location	Land FMB Details - Received			Land				Proposals			Set backs	
			Ward No.	Block no.	Survey no.	Owner-ship	Classifica-tion	Availa-ble	Requi-red	Module s	Path-ways	Green Belts	Within the Land	Outside Land
17	LS28	Karunkulam	AQ	23	10	Corporation	Ground	2995 m ²	207 m ²	19 m ²	6.7 m ²	134 m ²	Around 3m (Avg) along the Proposed Boundary	North :Vacant Land South : 3m wide road East : Vacant Land West : 4m wide road
18	LS29	Anbu Nagar	BP	5	182	Corporation	General Use	2150 m ²	207 m ²	19 m ²	6.7 m ²	134 m ²	Around 3m (Avg) along the Proposed Boundary	North:Vacant Land South: 4m wide road East: 3m wide road West: Ex.Pump house
1	PS4	Existing Vanarapettai PS	AY	5	340/2C	Corporation	Existing PS							
2	PS5	Existing Kurichi PS	AV	8	5	Corporation	Existing PS							
3	PS6	Kumaresan Nagar	BT	28	49	Corporation	Open Land	1487 m ²	865 m ²	93 m ²	145 m ²	174 m ²	Around 2m along the Proposed Boundary	North: Residential Buildings South: Vacant Site East: 4.5m wide road West: 4 m wide road
1	Ramayapatti	GN: 46, Megamudaiyarkulam			11	Corporation	Open Land	37.52 Hect	22.04 Hect	19.91 Hect	0.53 Hect	2.0 Hect	Around 7.5m along the Proposed Boundary	

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

LAND RECORDS

Phase-III Area

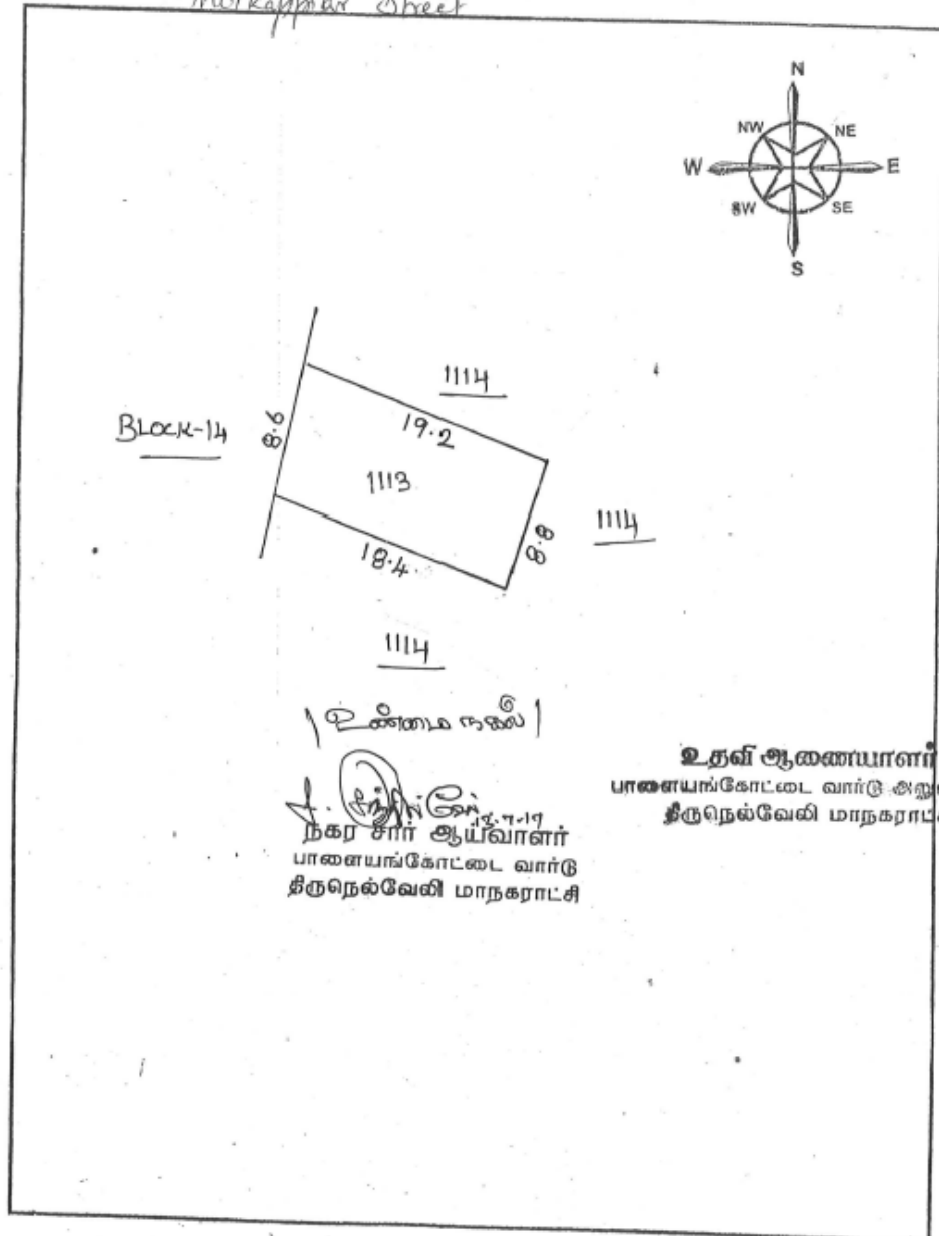
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வட்டம் : பாளையங்கோட்டை

வார்டு : Ay
பிளாக் : 13

நகர புல எண் 1113

Thotkappiar Street



Survey Methodology November 2006 253

மாண்புமிகு : திரு. ஏ. சீனிவாசன்
மாண்புமிகு : பா. ஜெ. சீனிவாசன்

TOWN SURVEY

உயர் அதிகாரம்

[illegible]

REGISTER.

Appendix

தகவல் : மாண்புமிகு கருத்து
வார்டு : Ay தொகுதி 13

Page 14 of 22

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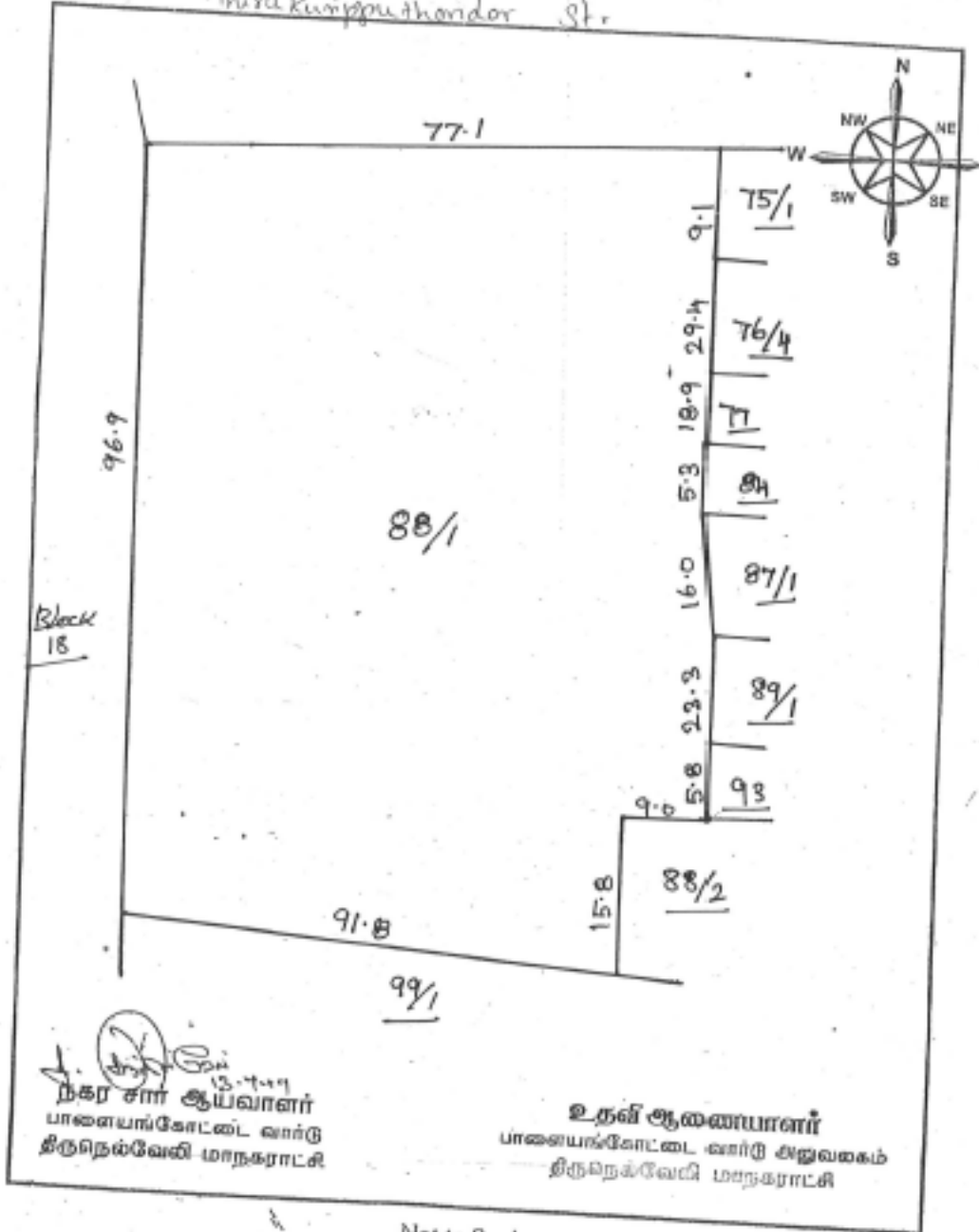
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வட்டம் : பாலையங்கோட்டை

வார்டு : 14
பிளாக் : 2

தகர புல எண் 88/1

Thirukuripputhondar Str.



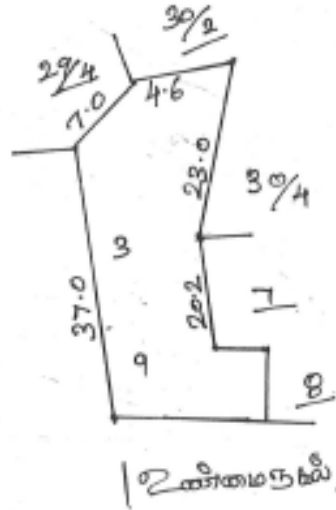
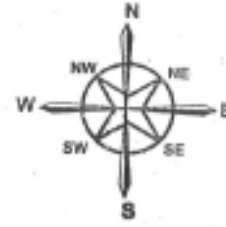
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வார்டு : 12
பிளாக் : 8

நகர புல எண்

Ulaganman Kovil St



12.7.17
நகர சபை ஆய்வாளர்
பாளையங்கோட்டை வார்டு
திருநெல்வேலி மாநகராட்சி

உதவி ஆணையாளர்
பாளையங்கோட்டை வார்டு அலுவலகம்
திருநெல்வேலி மாநகராட்சி

Not to Scale

மாடு ரண் -

பு 4

மாவட்டம் :

திருநெல்வேலி

வார்டு :

BL

வட்டம் :

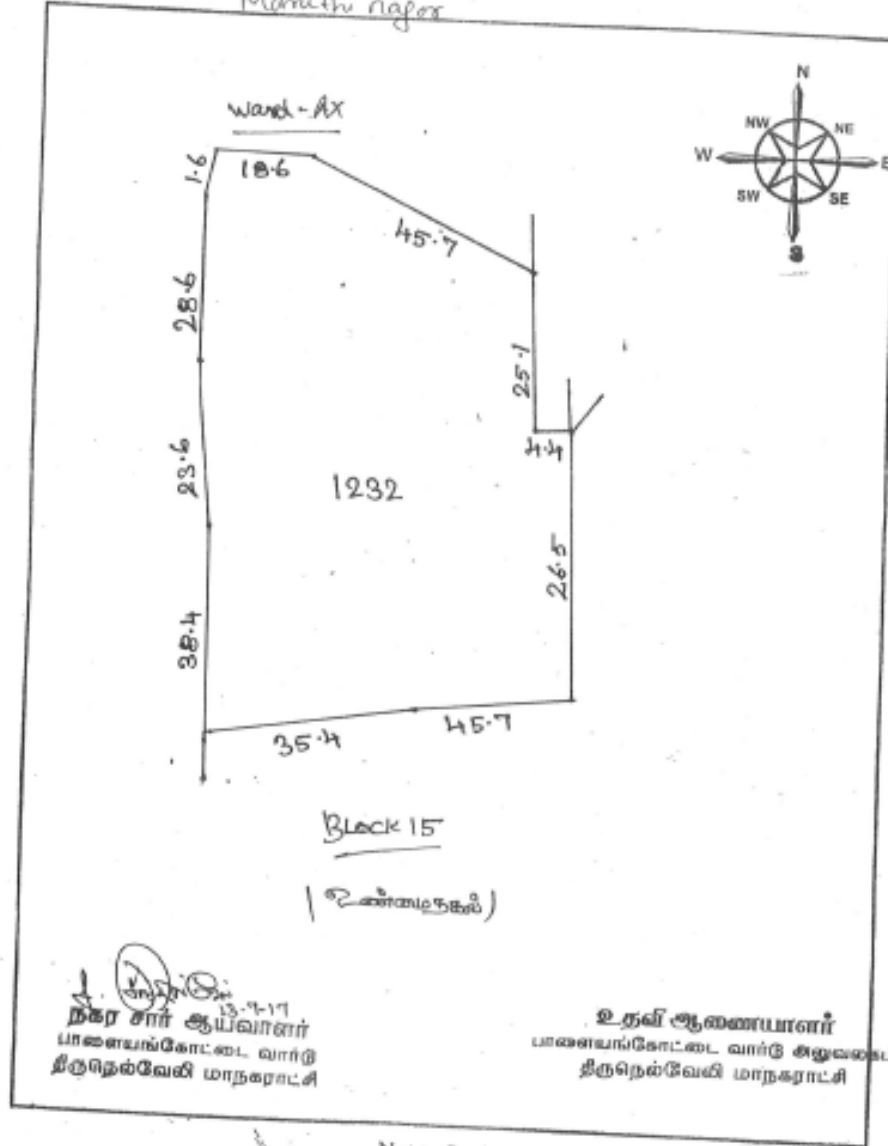
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பிளாக் :

14

நகர புரம் எண் 1232

Manuthi nager



Not to Scale

உஷா சர்வே

1. உயிரியல்

[illegible]

செந்தில் நகர்

பெயர்: 135

மாவட்டம் :

திருநெல்வேலி

வார்டு :

BT

வட்டம் :

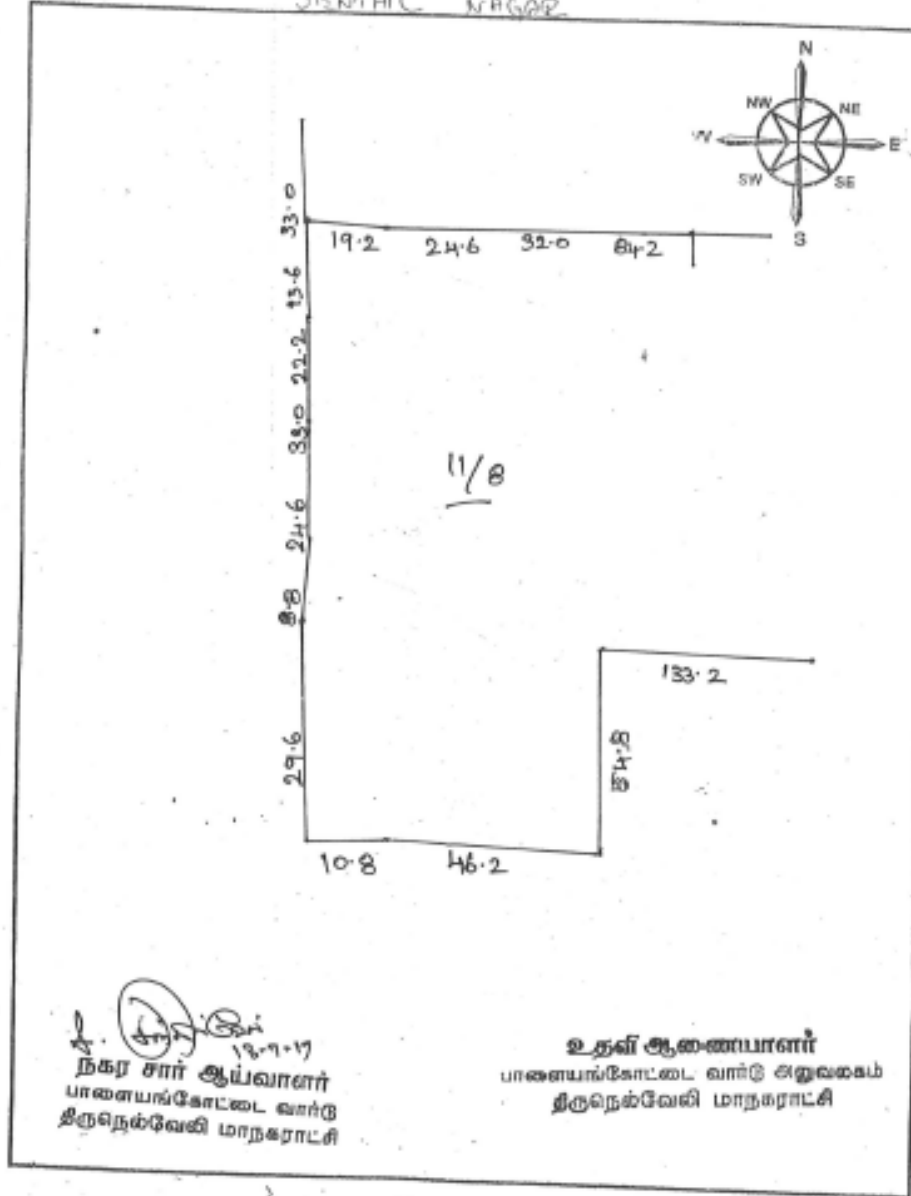
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பிளாக் :

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SEETHIL NAGAR

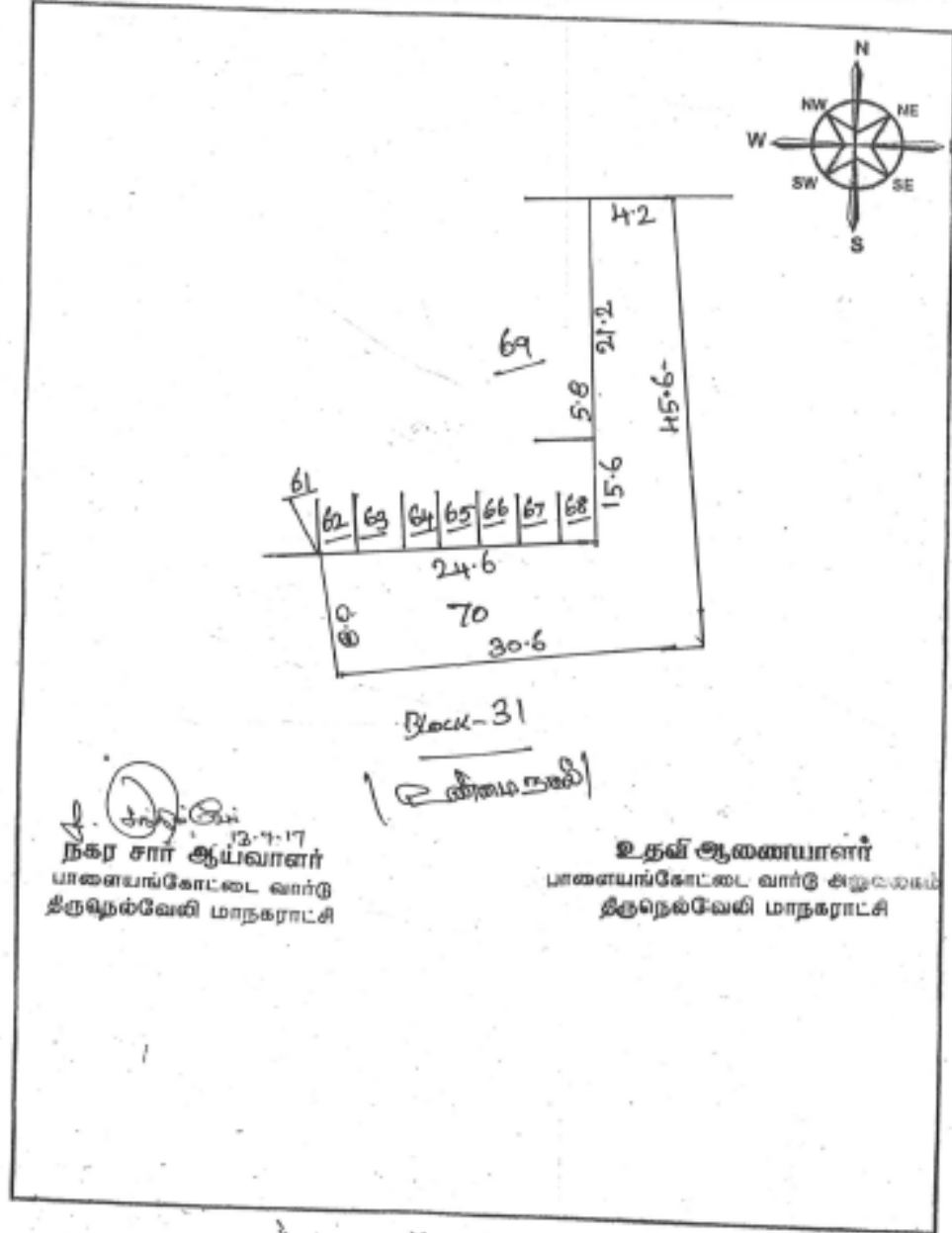


Not to Scale

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வட்டம் : பாளையங்கோட்டை

வார்டு : B5
பிளாக் : 29

நகர புல எண் 70



↓
நகர சபா ஆய்வாளர்
பாளையங்கோட்டை வார்டு
திருநெல்வேலி மாநகராட்சி

உதவி ஆணையாளர்
பாளையங்கோட்டை வார்டு அலுவலகம்
திருநெல்வேலி மாநகராட்சி

Survey Dates: Aug. 2000 to Feb. 04 & 2007

மாண்புமிகு : திரு. கருண்மணி
மாண்புமிகு : பா. ஜெ. பாரதிதாசன்

TOWN SURVEY

உயர்நீதிமன்றம்

REGISTER.

நிபந்தன.

நகரம் : பரமனாமங்கோட்டை.

വാർഡ് : 85 ഗ്രേഡ് 29

Form No. old - 22
New - 41.

Name of locality or group in which animals captured there		Number of fish	Old survey number and date on which this fish was captured	Number of specimens collected from this locality	Government, State, Territory, Island and archipelago, province, district, city, village, hamlet, plantation, school, etc.	Source of information and date on which specimen was taken	Islands group, name of collection, geographical position, elevation, etc.	Date and form of collection method used, length, weight, etc.	Time of day	Remarks (if any)	Notes from other specimens collected at same locality, etc.
70	-	11	1000	-	1000	-	-	-	-	-	10.00

[illegible]

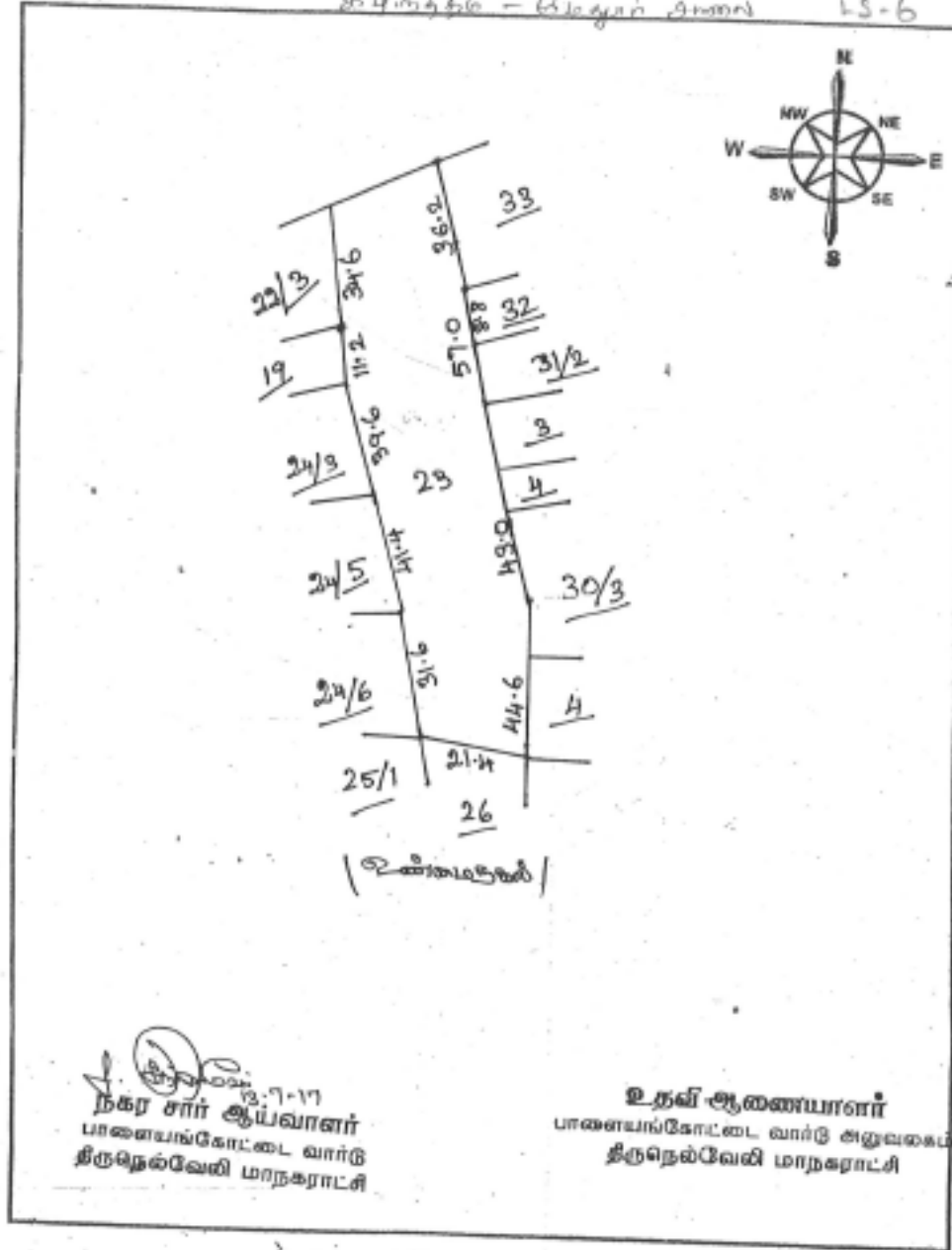
மாவட்டம் : திருநெல்வேலி
வட்டம் : பாளையங்கோட்டை

வார்டு : 38
பிளாக் : 2

நகர புல எண் 23

திருநெல்வேலி - கிழக்கு - கிழக்கு - கிழக்கு

45-6



நகர சபை
நகர சபை ஆய்வாளர்
பாளையங்கோட்டை வார்டு
திருநெல்வேலி மாநகராட்சி

உதவி ஆணையாளர்
பாளையங்கோட்டை வார்டு அலுவலகம்
திருநெல்வேலி மாநகராட்சி

திருவண்ணாமலை நகராட்சி

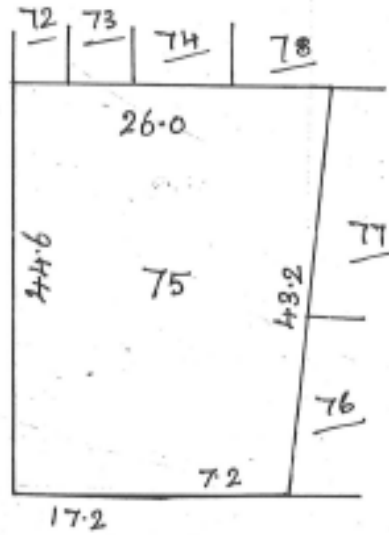
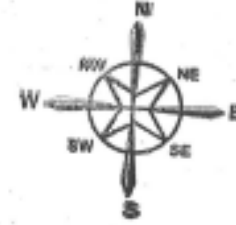
மாவட்டம் : திருநெல்வேலி
வட்டம் : பாளையங்கோட்டை

வார்டு : 38
பிளாக் : 8

நகர புல எண் 75

THIRUVANNA NATHA PURAM

LS7



ward - 38

(சென்னை நகராட்சி)

13.7.19
நகர சபா ஆய்வாளர்
பாளையங்கோட்டை வார்டு
திருநெல்வேலி மாநகராட்சி

உதவி ஆணையாளர்
பாளையங்கோட்டை வார்டு அலுவலகம்
திருநெல்வேலி மாநகராட்சி

Not to Scale

நாளைப்பம் : திருவெஃகேஸ்
வப்பம் : பாயளப்பக்கோட்டை

டவர் சர்டீபிகேட்

REGISTER.

நகரம் : பாளையங்கோட்டை.

Form No. old 51
New 41

ബോർഡ് : ൧൧ ഡിനാർ : ൧

[illegible]

நியு காலனி - L38

மாவட்டம் :

திருநெல்வேலி

வார்டு :

86

வட்டம் :

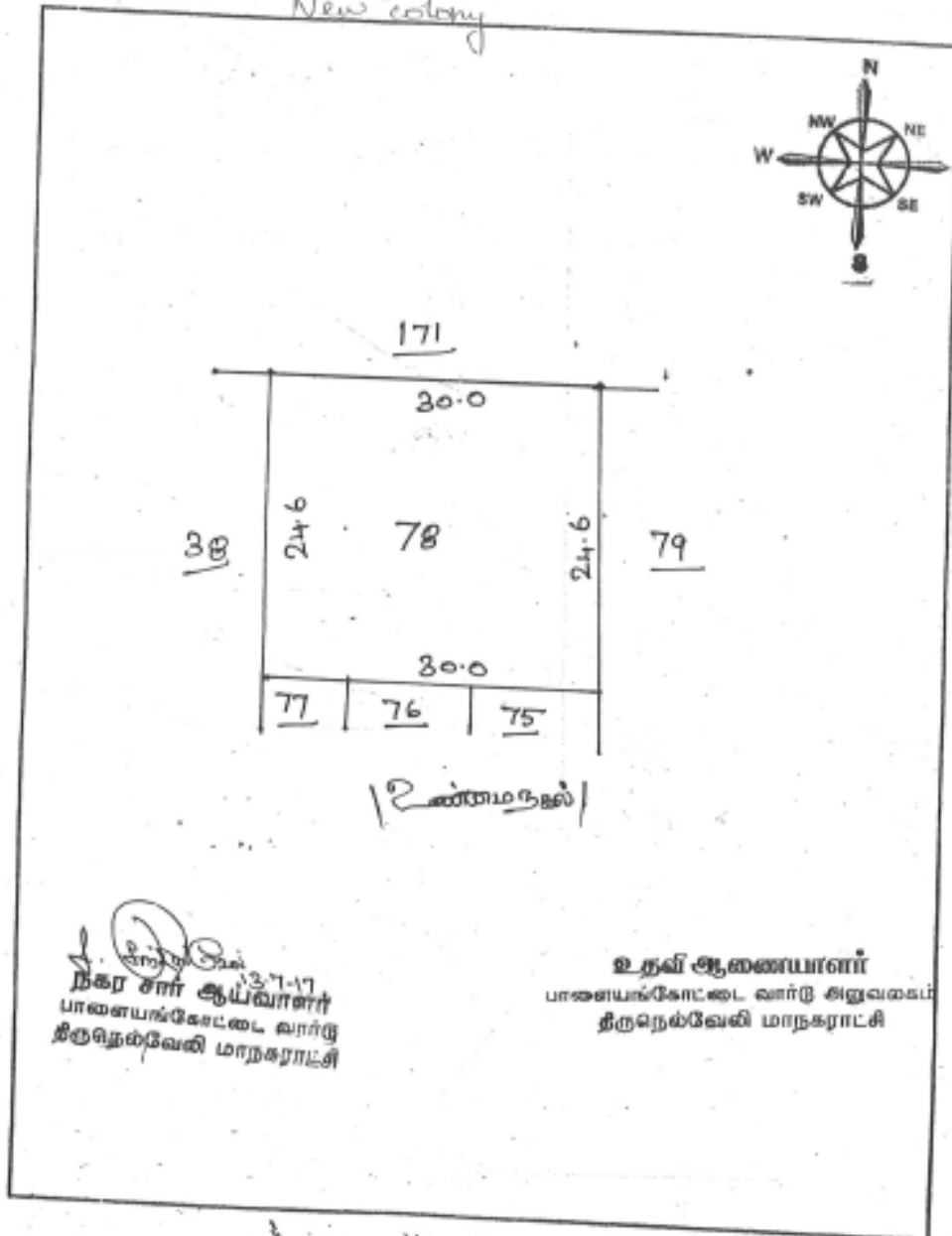
பாளையங்கோட்டை

பிளாக் :

22

நகர புல எண் 78

New colony



நகர சபை ஆய்வாளர்
பாளையங்கோட்டை வார்டு
திருநெல்வேலி மாநகராட்சி

உதவி ஆணையாளர்
பாளையங்கோட்டை வார்டு திருநெல்வேலி
திருநெல்வேலி மாநகராட்சி

Not to Scale

Layer 2004

நிஜம்தர்.

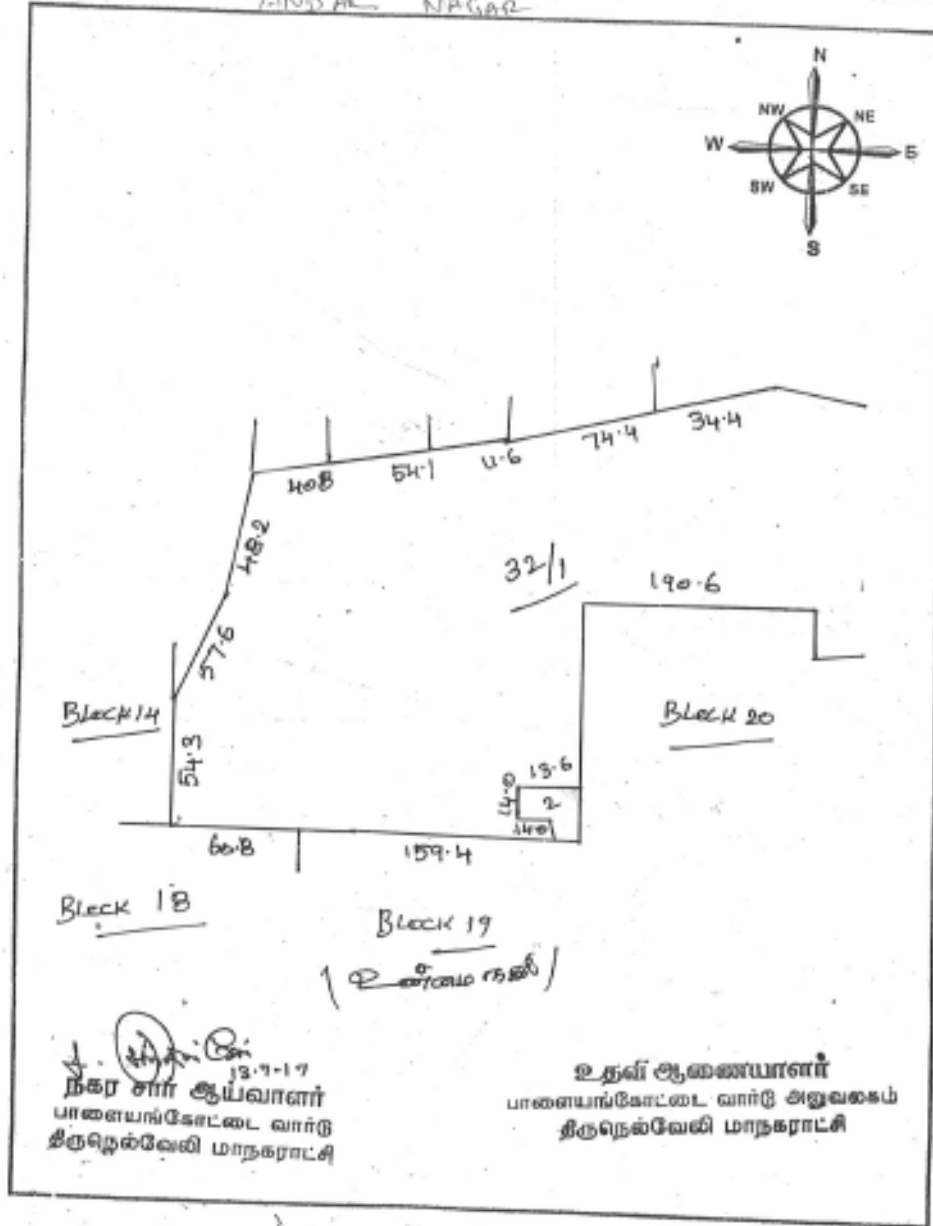
Form No. old - 51
New - 41[illegible]

சிதண்டம் ரெகர் - 25/5

மாவட்டம் : திருநெல்வேலி வார்டு : B2
வட்டம் : பாளையங்கோட்டை பிளாக் : 21

நகர புல எண் 32/1

ANDAL NAGAR



Not to Scale

Notes: *Notes: Chap. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844,*

மாண்புமிகு : திருநெல்வேலி
மாண்புமிகு : பாண்டிச்சேரி

TOWN SURVEY
L. 1891, c. 100

(1) Name of healthy or strong dog and its age	Number of shot		(4) Old jersey number and letter on the collar	(5) Medical dog number on the collar	(6) Government, State, District, Town and other details	(7) Type, breed, character, etc.	(8) Source of bringing and date of capture	(9) If to be kept, rate of keep-charge to be paid	(10) Name and rank of owner	(11) Remarks	(12) Remarks on the dog	(13) Remarks on the dog
	(2) Left	(3) Right										
32	1	151	1	5	47							

REGISTER.

தகவல் : பாதுகாப்பற்ற நிலை
 ண்டு : 34 ண்டு 2)

Form No. old - in
New, dt.

[illegible]

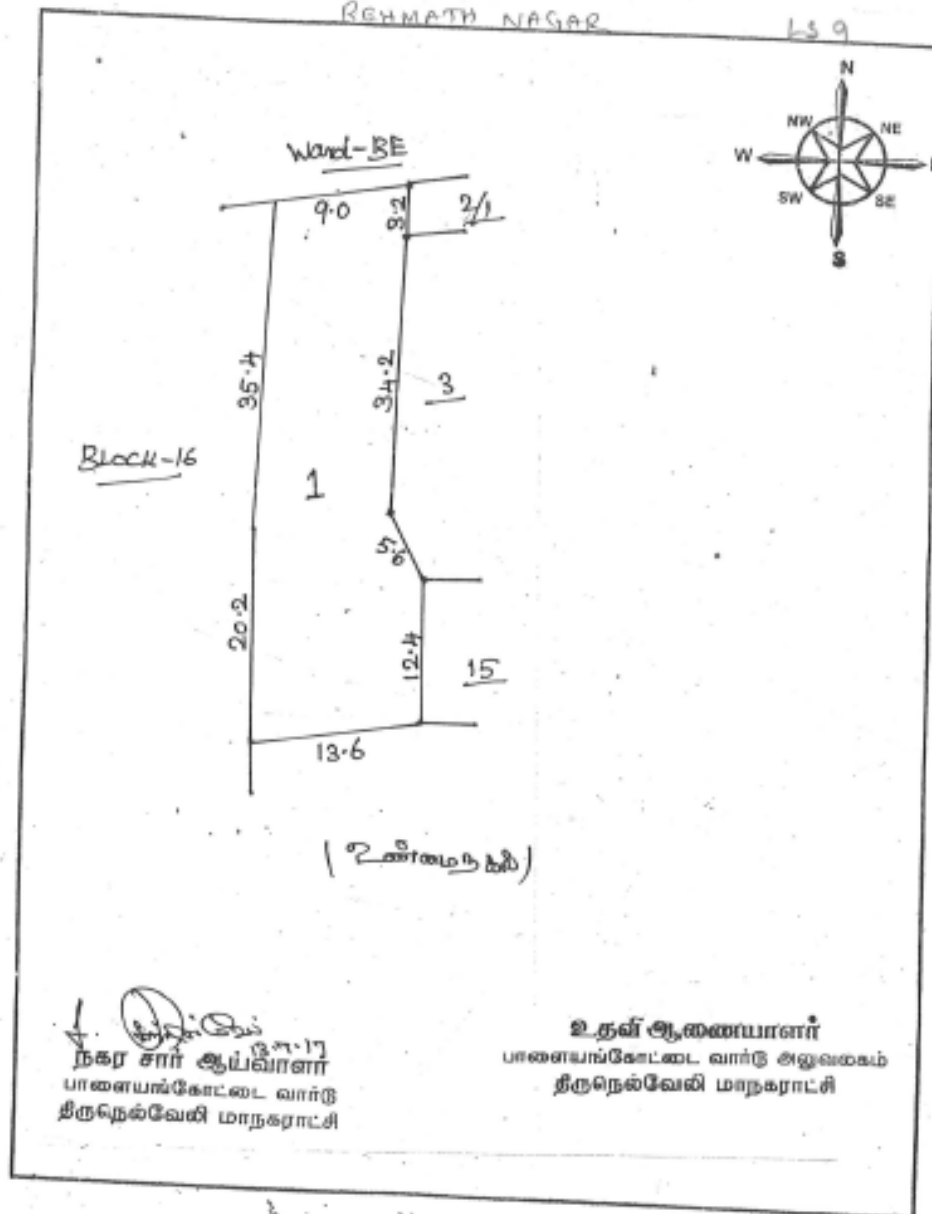
தேவ் மத் ரிதாரி - ௦௩௭

மாவட்டம் : திருநெல்வேலி
வட்டம் : பாளையங்கோட்டை

வார்டு : 35
பிளாக் : 26

நகர புற எண் 1

BEHMATH NAGAR

LS 0

Not to Scale

பேரலுவலர் காவலர்

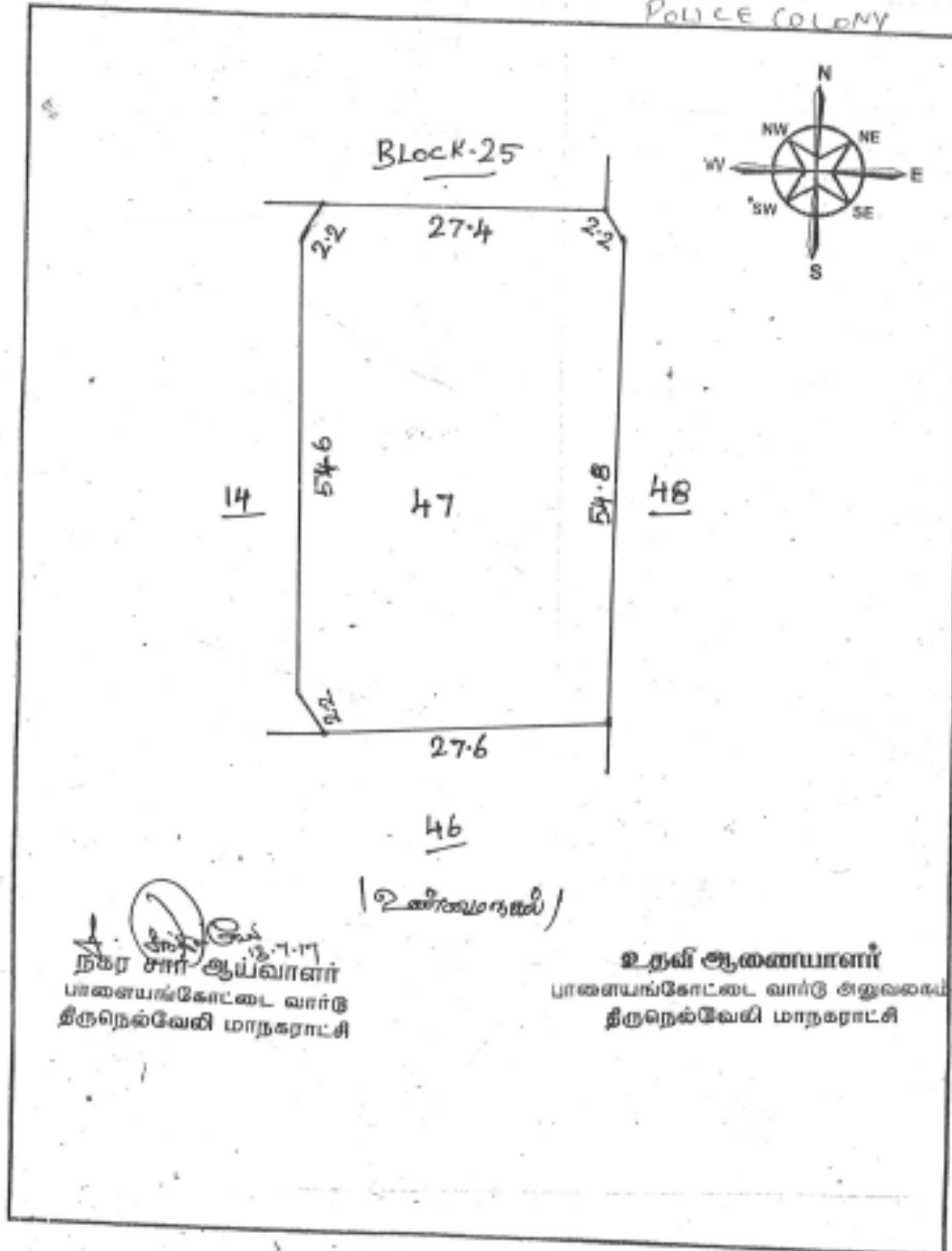
LS-10

மாவட்டம் : திருநெல்வேலி
வட்டம் : பாளையங்கோட்டை

வார்டு : Bc
பிளாக் : 26

நகர புல எண் 47

POLICE COLONY



Not to Scale

சென்னை நகரம் - Part - LSI

மாவட்டம் :

திருநெல்வேலி

வார்டு :

BR

வட்டம் :

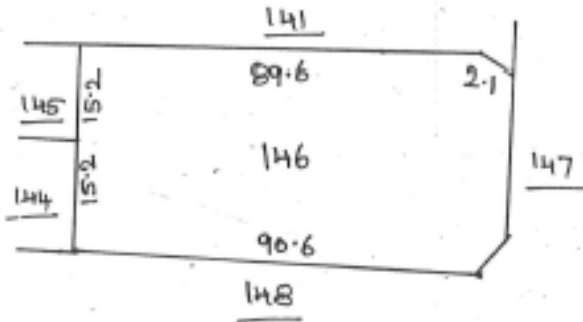
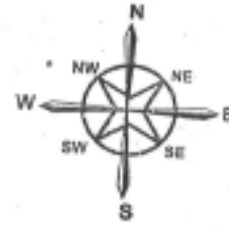
பாளையங்கோட்டை

பிளாக் :

B

நகர புல எண் 146

Sevanya Nagar



(2 சைமென்ட்)

18-7-17
நகர சபா ஆய்வாளர்
பாளையங்கோட்டை வார்டு
திருநெல்வேலி மாநகராட்சி

உதவி ஆணையாளர்
பாளையங்கோட்டை வார்டு திணைக்கட்சி
திருநெல்வேலி மாநகராட்சி

Not to Scale

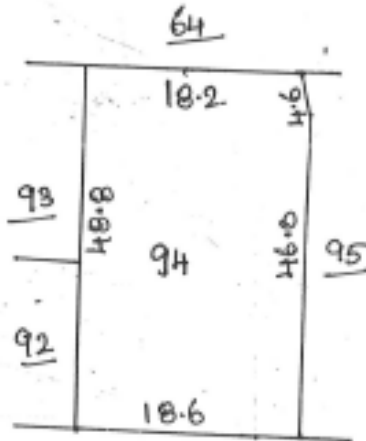
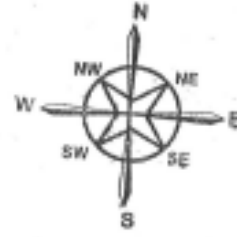
Page - 2512.

மாவட்டம் : திருநெல்வேலி
வட்டம் : பாளையங்கோட்டை

வார்டு : 37
பிளாக் : 18

நகர புல எண் 94

ToB Colony



125
(அளவைகள்)

13.7.17
நகர சபை ஆய்வாளர்
பாளையங்கோட்டை வார்டு
திருநெல்வேலி மாநகராட்சி

உதவி ஆணையாளர்
பாளையங்கோட்டை வார்டு திருநெல்வேலி
திருநெல்வேலி மாநகராட்சி

Not to Scale

TOWN SURVEY

உயர்வான சிவனே

Name of locality or series of place through observation made		Number year		Remarks
(1)	(2)	(3)	(4)	
	Survey Coll. of the State			
	Subdivisions of the State			
	Old survey number and date of the survey			
	Marked for purchase of the land			
	Ownership, Name, Location, from where the land is taken, and the name of the person who owns it			
	Area, in acres, of the land taken			
	Source of information and date of the survey			
	If the land is of any other kind, state the kind			
	Class and sort of soil			
	Remarks			
	Signature			
	Page			
	of			

REGISTER

நிழலிடும்.

நாள் : புதனாயி்க்கிடை
 ஷரீடு : 87 மோக் 16

Form No. old - 51
New - 41.

[illegible]

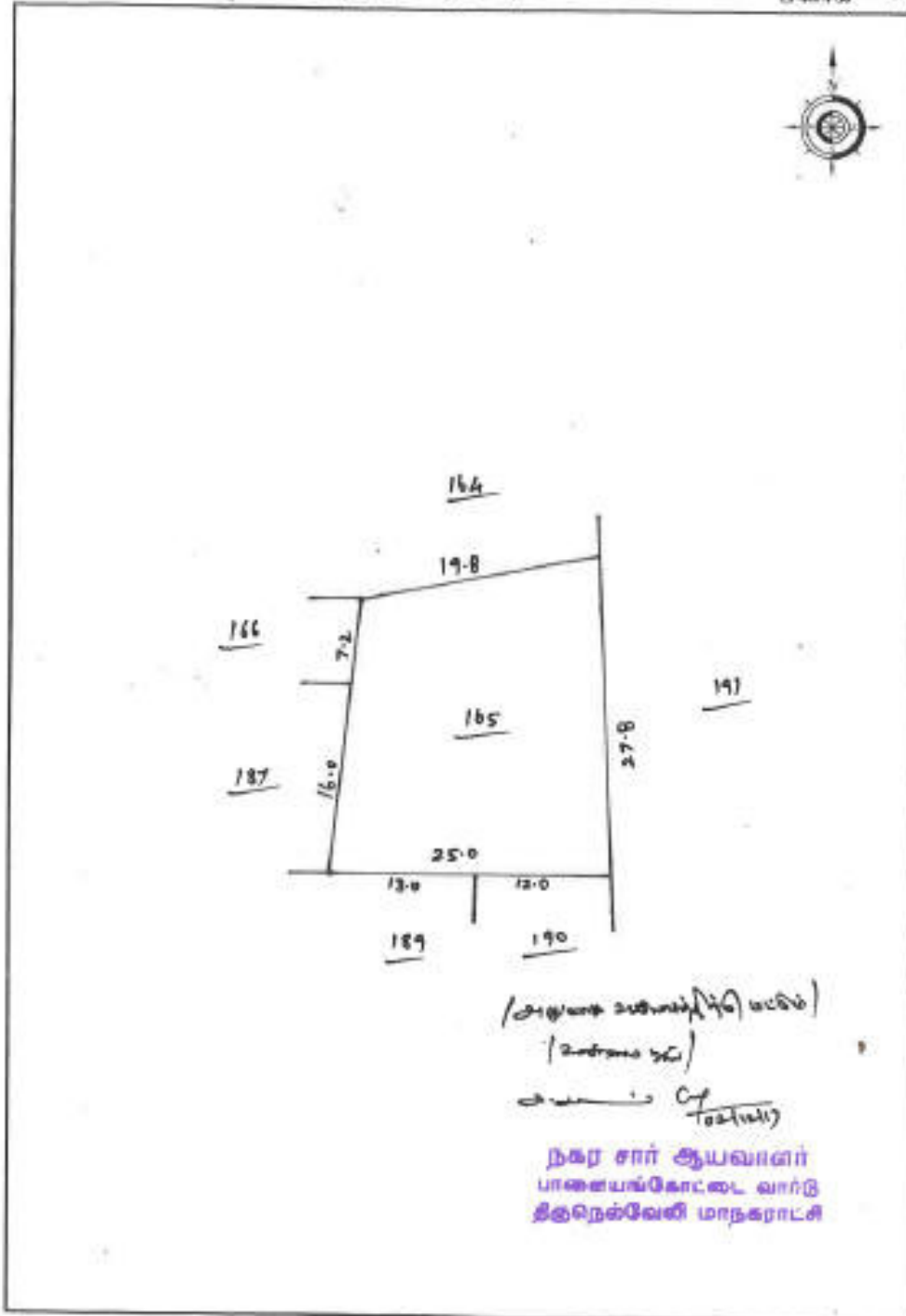
மாவட்டம் : திருநெல்வேலி

வட்டம் : பாளையங்கோட்டை

நகர புல எண்: 165

வார்டு - 28

பிளாக் - 20



அச்சி மடம்

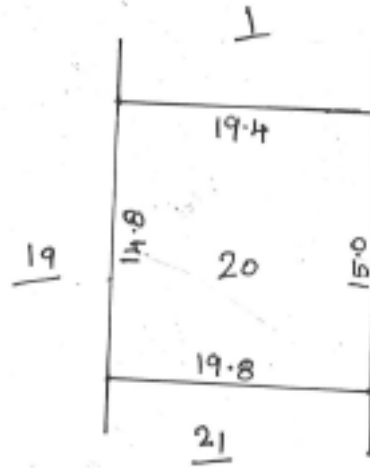
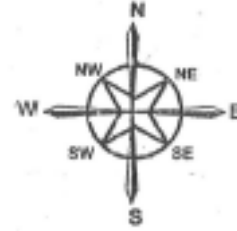
P3-6

மரவட்டம் : திருநெல்வேலி
வட்டம் : பாளையங்கோட்டை

வார்டு : 39
பிளாக் : 43

நகர புல எண் 20

ACHI MADAM



12.7.17
நகர சபை ஆய்வாளர்
பாளையங்கோட்டை வார்டு
திருநெல்வேலி மாநகராட்சி

உதவி ஆணையாளர்
பாளையங்கோட்டை வார்டு அலுவலகம்
திருநெல்வேலி மாநகராட்சி

Not to Scale

TOWN SURVEY

LAND SURVEY

Sl. No.	Name of supply or agent சரக்கு வழங்குபவரின் பெயர்		Number அளவு	Description of goods சரக்கின் விவரம்
	Supply கொள்முதல்	Agent அளிப்பவர்		
10 -	-	-	2465 -	சீர்திருத்தப் பணிகள்

REGISTER.

Figure 2.

[illegible]

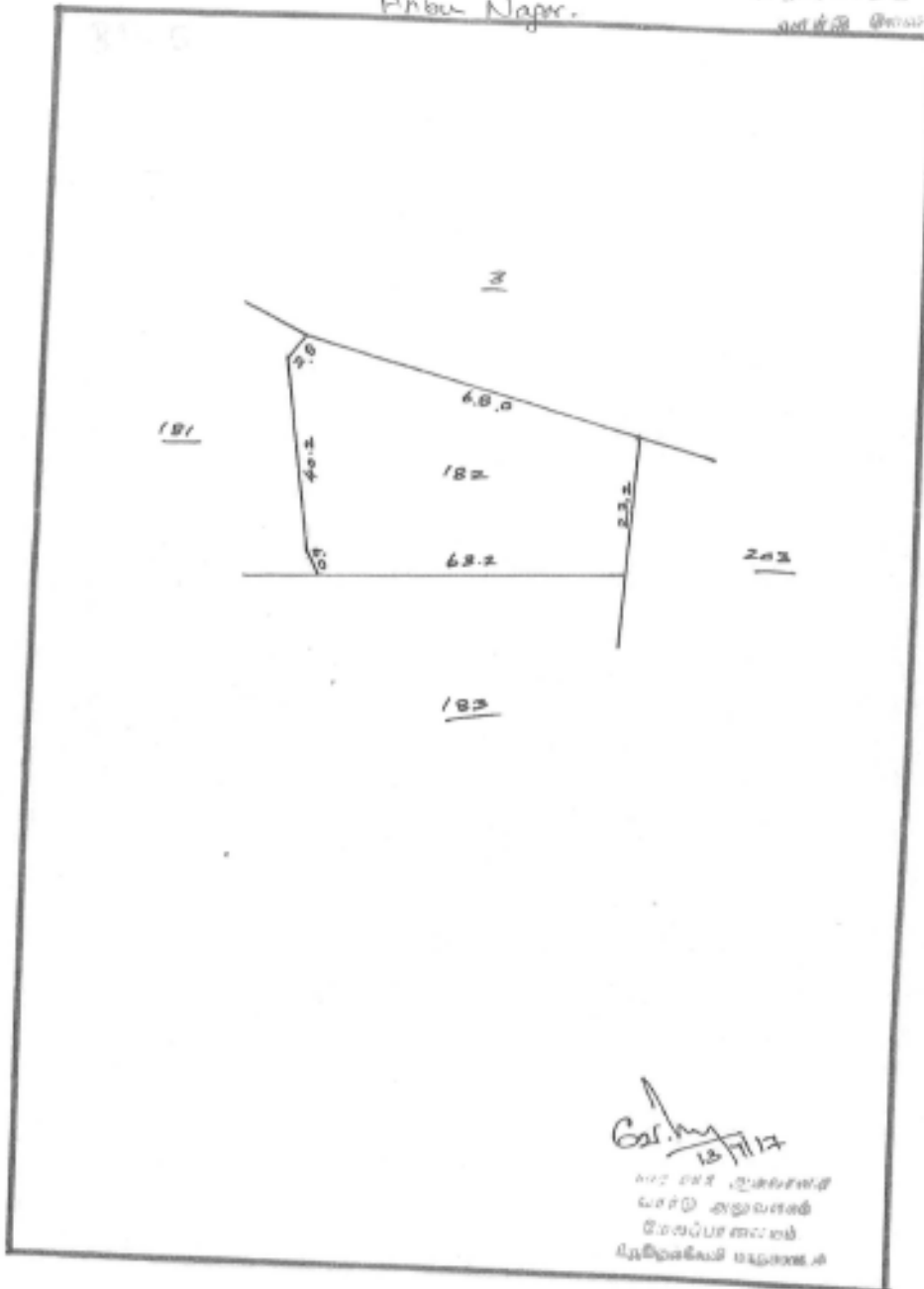
July 2011 - P28

கருத்து : திருநெல்வேலி
மட்டம் : பாண்டமங்கலம்

உயிர் உயர்வு : 182
வரலாறு : 5

Anten Napor.

பா. நகராஜ், திரு. உதயசூரியன்
என். இ. இராமன், பா. நகராஜ்



Gar. Inc.
18/7/12

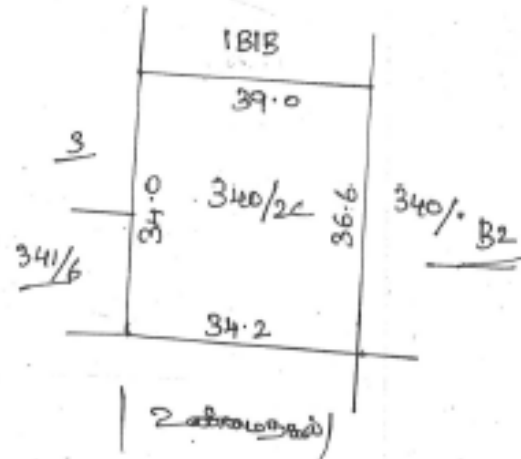
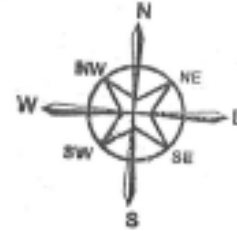
பொது மக்கள் இயக்கங்களில்
வாசலு அனுமதி
கேள்வியை எழுப்பும்
பிரதீபகரணம் மருத்துவம்

மாவட்டம் : திருநெல்வேலி
வட்டம் : பாளையங்கோட்டை

வார்டு : Ay
பிளாக் : 5

நகர புல எண் 340/2c

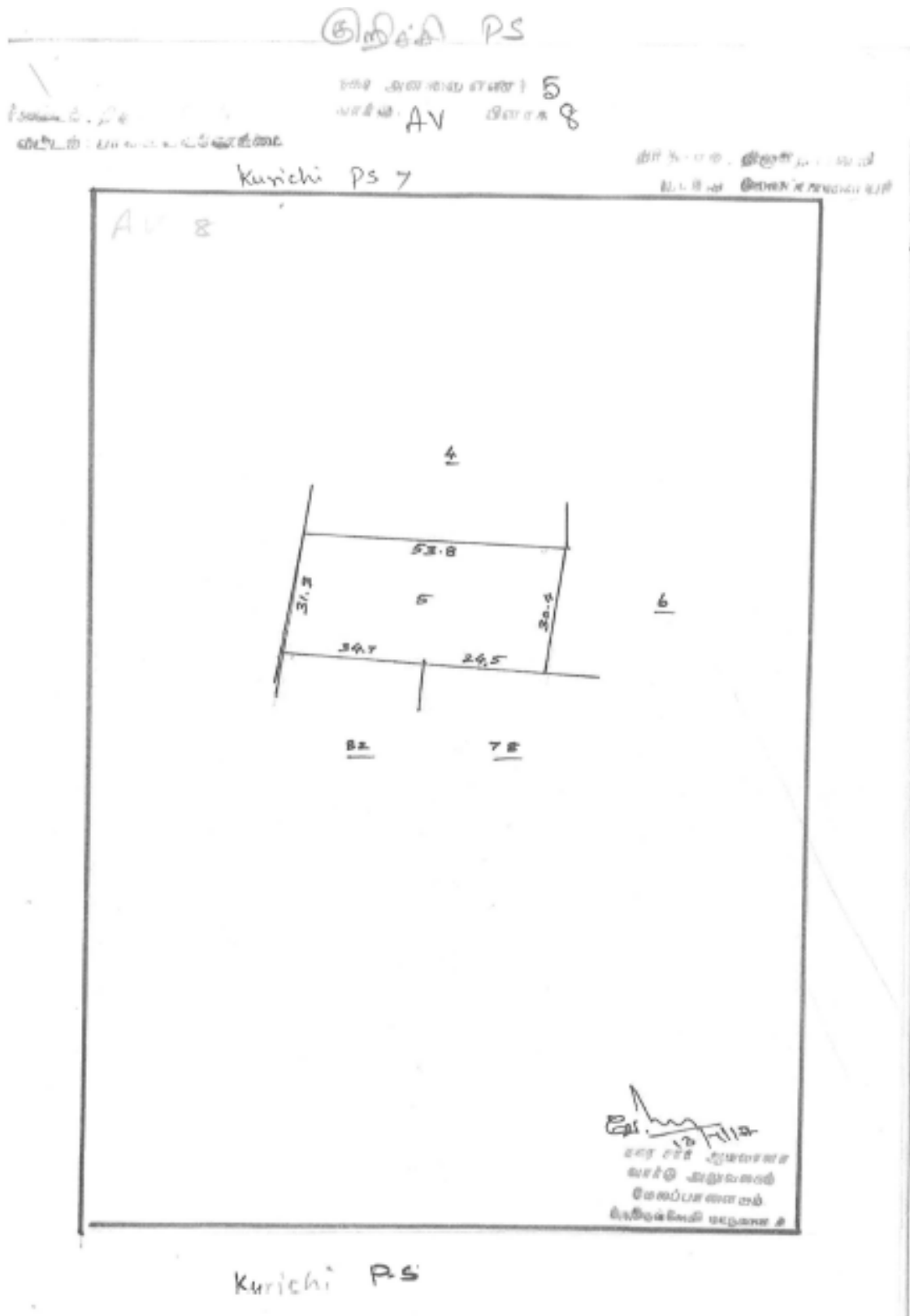
EXISTING PANNARPETTAI PUMPING STN.

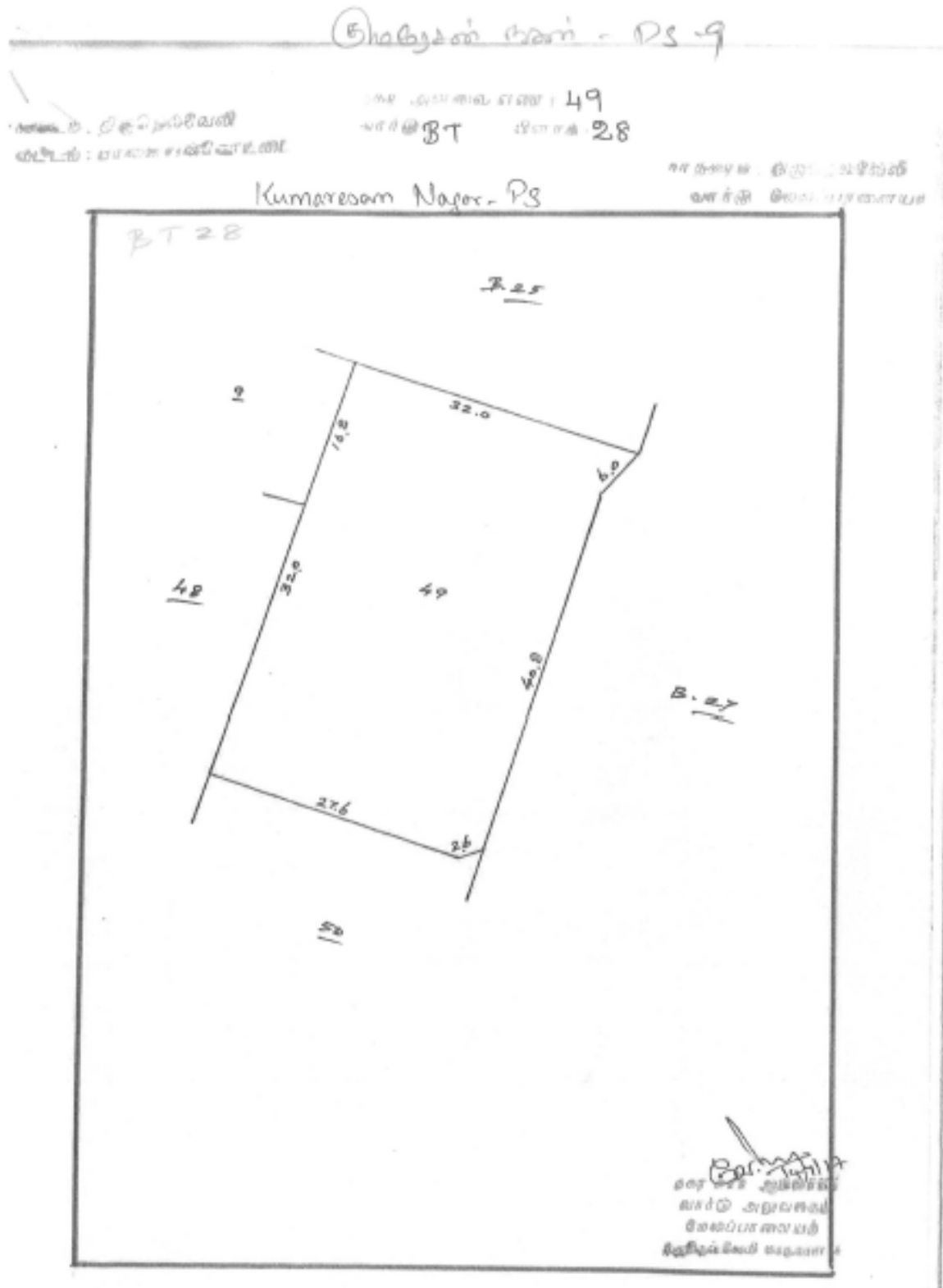


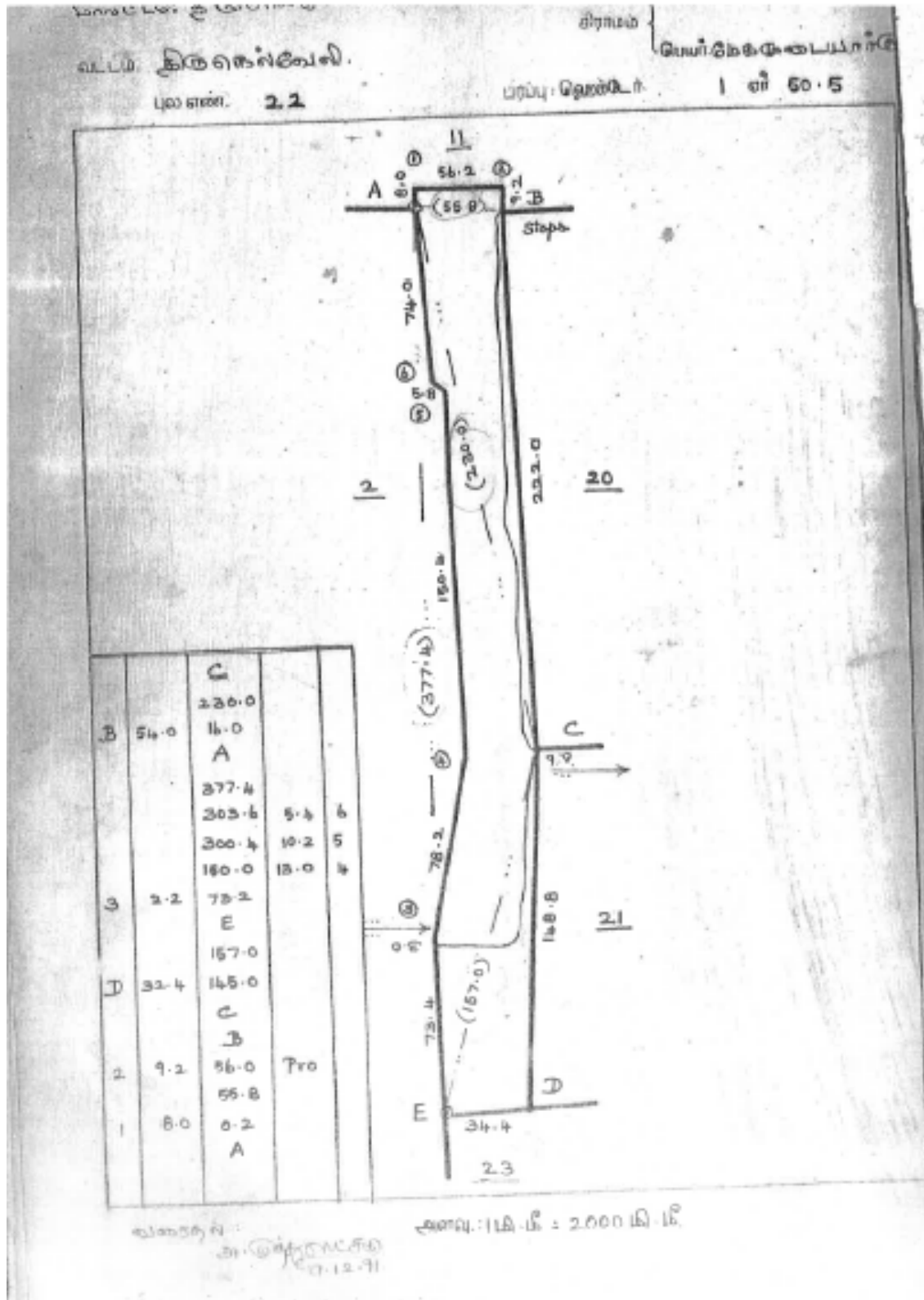
13.9.19
நகர சார் ஆய்வாளர்
பாளையங்கோட்டை வார்டு
திருநெல்வேலி மாநகராட்சி

உதவி ஆணையாளர்
பாளையங்கோட்டை வார்டு அலுவலகம்
திருநெல்வேலி மாநகராட்சி

Not to Scale







PROPOSED STRUCTURE OF SUBPROJECT INFORMATION DISCLOSURE LEAFLET

Up to 2-3 pages maximum.

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	
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 Tamil and English)

The _____ Project welcomes complaints, suggestions, queries, and comments regarding project implementation. We encourage persons with grievance to provide their name and contact information to enable us to get in touch with you for clarification and feedback.

Should you choose to include your personal details but want that information to remain confidential, please inform us by writing/typing *(CONFIDENTIAL)* above your name. Thank you.

Date	Place of registration	Project Town			
		Project:			
Contact information/personal details					
Name		Gender	* Male * Female	Age	
Home address					
Place					
Phone no.					
E-mail					
Complaint/suggestion/comment/question Please provide the details (who, what, where, and how) of your grievance below:					
If included as attachment/note/letter, please tick here:					
How do you want us to reach you for feedback or update on your comment/grievance?					

FOR OFFICIAL USE ONLY

Registered by: (Name of official registering grievance)	
Mode of communication: Note/letter E-mail Verbal/telephonic	
Reviewed by: (Names/positions of officials reviewing grievance)	
Action taken:	
Whether action taken disclosed:	Yes No
Means of disclosure:	

