

Resettlement Plan (Draft)

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IND: Proposed Tamil Nadu Urban Flagship Investment Program (TNUFIP) - Tiruchirappalli Underground Sewerage System (UGSS)

Prepared by Tiruchirappalli City Municipal Corporation, 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 |
| 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 | – | project implementation unit |
| PMU | – | project 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 |

NOTES

- (i) In this report, "\$" refers to US dollars.

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EXECUTIVE SUMMARY

1. **Introduction.** The Tamil Nadu Urban Flagship Investment Program (TNUFIP) is designed under the multi tranche 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.

2. **Subproject Scope.** Thirty one percent of the Tiruchirappalli (Trichy) city is currently covered under functional sewerage system and the remaining areas are proposed to cover in three different phases: (i) Phase II-East Zone; (ii) Phase III-West Zone; and (iii) Phase IV-South Zone. It is proposed that Phase II and III will be implemented under ADB-funded TNUFIP; with Phase II implemented under Tranche 1, and Phase III in subsequent tranches. This subproject therefore focuses on Phase II, and includes provision of UGSS to the East Zone (Ariyamangalam) comprising presently uncovered areas in the old city and extended areas in the eastern part of the city. Proposed subproject components of the Trichy Underground Sewerage System (UGSS) under ADB-financed TNUFIP include: (i) laying of 317 kilometers (km) of sewer network; (ii) laying of 24.8 km of pumping mains; (iii) construction of five sewage pumping stations; (iv) construction of 23 sewage lift stations; (v) construction of 37 million liters per day (MLD) new sewage treatment plant (STP); (vi) rehabilitation of existing sewage treatment plant; and (vii) provision of 44,569 house service connections

3. **Key Findings.** No private land acquisition envisaged for implementation of proposed subproject components. Construction of proposed sewage pumping stations, lift stations and sewage treatment plant will be either accommodated within the existing facilities' premises or on vacant Government lands. Shifting and reconstruction of an existing agricultural threshing platform at new STP site (which had been provided by the erstwhile gram panchayat and is used by the local farmers for grain drying, threshing, loading/unloading) will be required as the existing one will no longer be accessible to the public after construction of STP/SPS-6. Currently it is used by approximately 200 farmers from surrounding areas. In addition to this loss of common property resource, new sewer system is likely to cause temporary disruption to roadside economic activities. New sewer system is proposed to be 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. 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 in November 2017 for roads where temporary impacts were identified. Based on this, a total of 74 roadside movable/ transitory businesses that are currently within ROW are identified as potentially temporarily affected. These businesses are mainly flower/fruit/vegetable sellers (44%) and eateries (34%). None of the surveyed potential affected persons belong to scheduled tribes and only one AP was identified as a woman-headed household. The majority (43%) of affected persons were assessed to be below poverty line (BPL). Average income for potentially affected BPL is estimated at ₹142 per day and overall average income for all affected persons is ₹322 per day. The temporarily affected persons are expected to be able to continue with their business activity either at the same location or nearby; partial loss of income to each temporarily affected person is anticipated for the period of disruption.

4. **Recommended Actions.** A draft resettlement plan has been prepared for Trichy subproject components to mitigate impacts including loss of a common threshing platform and

temporary economic 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 GRM costs) is estimated at ₹3.51 million (approximately \$54,000) which includes compensation against temporary livelihood losses for 25 days to each affected person and replacement cost of affected common property. 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 project management unit (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. Project Implementation Unit's Assistant Safeguard Officer (PIU's ASO) will be responsible for updation & implementation of Resettlement Plan. Project management unit's Social Project Officer (PMU's SPO) is responsible for approval and implementation monitoring of RPs. Governance Improvement and Awareness Consultant (GIAC) will assist in monitoring Resettlement Plan implementation.

I. SUBPROJECT DESCRIPTION

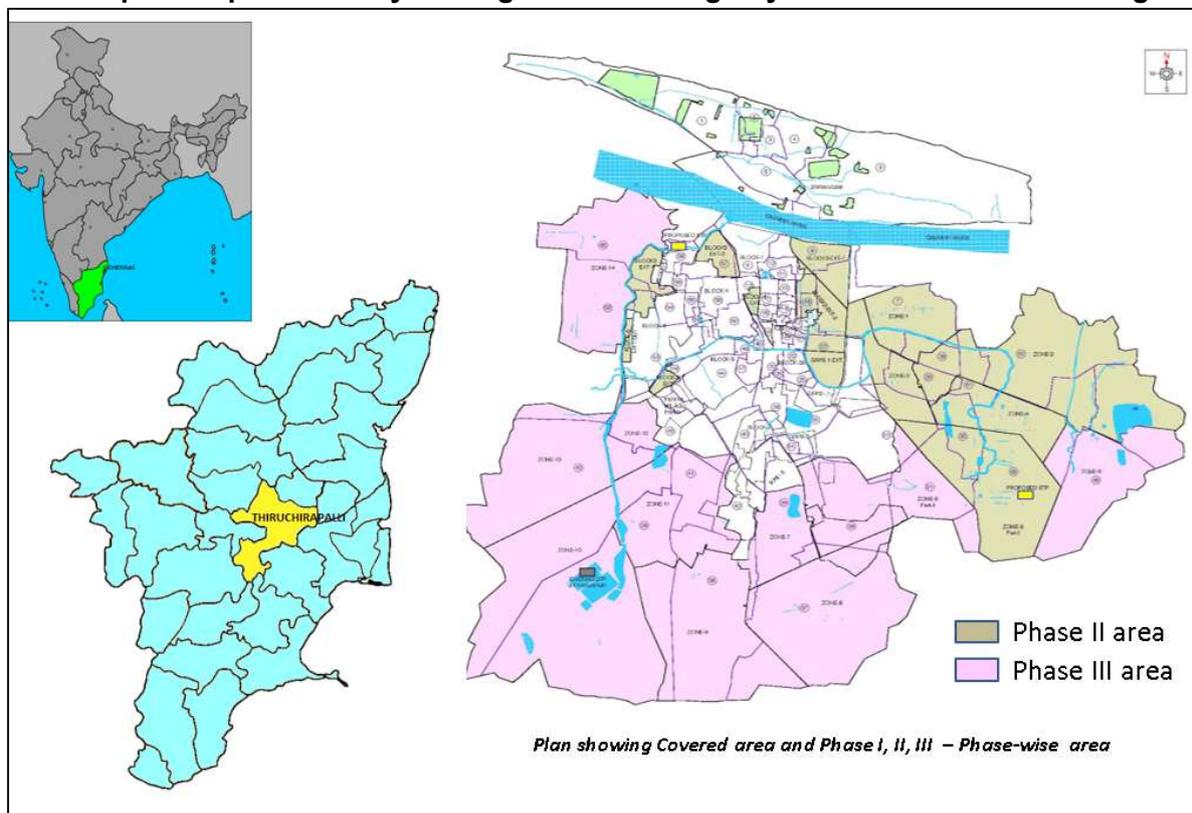
1. The proposed Tamil Nadu Urban Flagship Investment Program (TNUFIP) is aligned to support in the following: (i) urban infrastructure across the state improved and world class cities focusing on universal access to 24x7 water supply services and sanitation facilities including tertiary treatment of 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–Tiruchirappalli, (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 multitranches financing facility (MFF). The impact of the TNUFIP will be improved liveability and resilience in urban areas of economic importance in Tamil Nadu.

2. Currently, only part of the Tiruchirappalli (Trichy) city (~31%) is covered with a functional sewerage system (implemented in various stages) which is present in the higher density old city area (covering ~52% population). The existing system is connected to sewage treatment plant (STP) at Panjappur. Sewerage Master Plan prepared for the city proposes to cover remaining areas in three different phases: (i) Phase II-East Zone; (ii) Phase III-West Zone; and (iii) Phase IV-South Zone. It is proposed that Phase II and III will be implemented under ADB funded TNUFIP; with Phase II implemented under Tranche 1, and Phase III in subsequent tranches. Phase IV is not yet planned. This subproject focuses on Phase II, and includes provision of UGSS to the East Zone (Ariyamangalam) comprising presently uncovered areas in the old city, and extended areas in the eastern part of the city. The overall population coverage on Phase II completion will be about 75%. The balance 25% will be covered under Phases III and IV. A part of the area under Phase-II will be connected to the existing STP while a new STP is also proposed at KeelaKalkandarKottai to take additional load from remaining areas (Map 1). Proposed subproject components of the Trichy Underground Sewerage System (UGSS) under ADB financed TNUFIP include:

- (i) Laying of around 317 kilometer (km) of sewer network of PVC/DWC/CI pipes ranging from 200-1,000 millimeter (mm) dia.;
- (ii) Laying of 24.8 km of pumping mains of 150-700 mm dia.;
- (iii) Construction of five sewage pumping stations;
- (iv) Construction of 23 sewage lift stations;
- (v) Construction of 37 million liters per day (MLD) new sewage treatment plant;
- (vi) Rehabilitation of existing sewage treatment plant; and
- (vii) Provision of 44,569 house service connections.

3. This resettlement plan is prepared for proposed sewerage subprojects in Trichy under tranche 1 of ADB financed TNUFIP (Map 1) and is in line with the resettlement framework prepared for the implementation of social safeguards under TNUFIP.

Map 1: Proposed Trichy Underground Sewerage System under ADB Financing



II. 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, lift stations and new STP and rehabilitation of existing STP will be either accommodated within the existing facilities' premises or on vacant Government lands. No permanent/temporary land acquisition is envisaged for implementation of proposed subproject components. Construction of new STP at Keelakalkandar Kottai requires shifting of an existing agricultural threshing platform (common property resource used by local farmers) to another suitable location. The platform was originally constructed by erstwhile Karkam village panchayat (now merged into Trichy corporation) to support agricultural activities around the area. Though a lot of mechanisation has been taken place, the threshing platform is still used by nearby agricultural landowners (~200 people) during harvest time for threshing, grain drying and loading/unloading purposes.



Agricultural threshing platform used by local farmers

5. Additionally, potential temporary resettlement impacts are identified due to rehabilitation and laying of sewer networks. Table 1 provides the details of proposed subprojects under Trichy UGSS and anticipated involuntary resettlement impacts. 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 O&M. New sewer system will be hence laid within road rights-of-way (ROW) in the centre of the road by cutting the black top portion. In wider roads, like SH and NH, 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 under the black top portion/ within the ROW will not require land acquisition or cause permanent displacement but will cause temporary access disruptions and possible temporary income loss during construction.

6. All roads/ streets in project area were screened through transect walks for any encroachments on black top portion/ ROW and detailed surveys were conducted for roads where temporary impacts were identified (in November 2017), indicating potential temporary income loss to 74 roadside movable/ transitory businesses. These are non-titled movable /transitory structures within the ROW. 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 and census surveys of affected persons.



Potential Temporary Impacts on Roadside Businesses

7. In line with ADB's Safeguard Policy Statement (SPS)-2009, and based on the identified impacts, the Trichy subproject can be classified as Involuntary Resettlement Category "B". Resettlement plan preparation is required for Trichy subproject components in line with the ADB's SPS-2009 and Resettlement Framework prepared for TNUFIP. This resettlement is prepared for Trichy 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 laying¹. The project 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 peak business hours, 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 to its original condition (including bitumen, cement concrete (CC) and CC interlocking tiles as applicable).

¹ This will be updated based on the revised project scope and detailed drawings before project implementation.

Table 1: Proposed Subproject Components in Trichy

| Sl. No. | Proposed Subproject Components | Scope of Land Acquisition and Rehabilitation and Resettlement | Summary |
|---------|---|---|--|
| 1 | <u>Sewer Network</u> . Laying of new 317 km of sewer network of DWC/CI pipes ranging from 200-1,000 mm dia. | Sewer pipes will be buried below in a trench in the middle of public roads within black top portion/ 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 businesses within ROW are envisaged on 74 affected persons. | Temporary economic impacts to 74 vendors |
| 2 | <u>Pumping Mains</u> . Laying of new 24.8 km pumping main of CI 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 LA and R&R envisaged | No involuntary resettlement/ indigenous people impacts anticipated |
| 3 | <u>Sewage Pumping Stations (PS)</u> . Construction of five (two main and three sub) sewage pumping stations (Refer Appendix 3, 4 & 5 for layout drawings, site photos, ownership records and EUPs/NOCs). | <p><u>Sewage Pumping Station-1</u>. The proposed SPS-1 is located at Chidambaram Nagar-Ariyamangalam and land belongs to Trichy Corporation (Ward No: S, Block No: 27, TS No: 2). The site is classified as park land. The site is free of any structures and currently covered with vegetation. Access to the site is through an internal road where logistics units/recycling units are located on both sides. SPS-1 requires total area of around 941 m² and adequate land is available for the construction. Construction activities will ensure no/minimal disturbance to nearby industries and proper access. No LA and R&R envisaged.</p> <p><u>Sewage Pumping Station-2</u>. The proposed SPS-2 is located at Ariyamangalam (inside solid waste dump site) and land belongs to Trichy Corporation (Ward No: S, Block No: 58). SPS-2 requires total area of around 1,400 m² and adequate land is available for the construction (total land area 16.93 ha). Approach road belongs to the Indian Railways and permission will be required to lay pumping main. NOC/EUP is required.</p> <p><u>Sewage Pumping Station-3</u>. The proposed SPS-3 is located at Win Nagar and land belongs to Trichy Corporation. New residential plotting, temporary sheds, old agricultural threshing platform (not in use) are seen in different parts of the site. However, site is very large (total land area 12.54 ha) and the required 1,629 m² area for construction of SPS-3 is available free of any structure and encumbrances. No LA and R&R envisaged.</p> <p><u>Sewage Pumping Station-4</u>. The proposed SPS-4 is located at Rajarajeshwari Nagar within newly developing residential area. Land belongs to Trichy Corporation and site is classified as park land. SPS-4 requires total area of around 1,286 m² and adequate vacant, unused land is available for construction. No LA and R&R envisaged.</p> | No involuntary resettlement/ Indigenous people impacts anticipated |

| SI. No. | Proposed Subproject Components | Scope of Land Acquisition and Rehabilitation and Resettlement | Summary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|--|-------------------------------------|------|--------------------------|---|---|----------------------------------|---|---|------------------------|---|----------------|---|---|-------------|---|---------------------|---|----------------------|---|---|-----------------------------|---|---------------|---|-------|---------------|----|-----------------------------|----|-------|-----------------------------|----|----------------|----|-------|----------------|----|-----------------|----|---|----|-------|----------------|----|-------------------|----|------|----------------------|----|---------------------|----|------|----------------------|----|-----------------------|----|------|----------------|----|----------------------|---|
| | | <p>Sewage Pumping Station-6. The proposed SPS-6 is located at Keelakalkandar kottai within proposed STP site and land belongs to Trichy Corporation. Though a lot of agricultural activities are seen around the site, the site is barren, covered sparsely with bushes and vegetation. The total area of site is around 4.2 acres and SPS-6 requires 614 m² No LA and R&R envisaged.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | <p><u>Lift Stations (LS)</u>. Construction of 23 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>For all lift stations, lift well will be constructed on the/along public roads (similar to manhole) where the sewer ends will terminate. Pumps will be installed in the well, and a control panel box will be installed near the well. Lift stations are proposed at following locations:</p> <table border="1" data-bbox="936 555 1532 1315"> <thead> <tr> <th>S. No</th> <th>Zone</th> <th>Lifting Station Location</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>(Arimangalum) Arputha Sami Puram</td></tr> <tr><td>2</td><td rowspan="2">2</td><td>Anjanayar Kovil Street</td></tr> <tr><td>3</td><td>Diamond Layout</td></tr> <tr><td>4</td><td rowspan="3">3</td><td>Raja Veethi</td></tr> <tr><td>5</td><td>Papakurichy Village</td></tr> <tr><td>6</td><td>Mahalaxmi Nagar Extn</td></tr> <tr><td>7</td><td rowspan="2">4</td><td>Meenaxi Nagar, S.A.S. Nagar</td></tr> <tr><td>8</td><td>Lakshmi Nagar</td></tr> <tr><td>9</td><td rowspan="2">B2-U1</td><td>Sri Ram Nagar</td></tr> <tr><td>10</td><td>Amman Nagar South Extension</td></tr> <tr><td>11</td><td rowspan="2">B2-U2</td><td>Devathanam, Jayakumar Nagar</td></tr> <tr><td>12</td><td>Sangeevi Nagar</td></tr> <tr><td>13</td><td rowspan="3">B3-U1</td><td>Bharathiyar St</td></tr> <tr><td>14</td><td>Vethathri nagar</td></tr> <tr><td>15</td><td>Vishwas Nagar Main Road, Thavallur Extn</td></tr> <tr><td>16</td><td rowspan="2">B3-U2</td><td>Thigaraj Nagar</td></tr> <tr><td>17</td><td>Vekailamman Nagar</td></tr> <tr><td>18</td><td rowspan="2">B4-U</td><td>Siva Nager Extension</td></tr> <tr><td>19</td><td>Mahizhaum poo salai</td></tr> <tr><td>20</td><td rowspan="2">B5-U</td><td>Pazhaiya Kuttai Road</td></tr> <tr><td>21</td><td>Collector office road</td></tr> <tr><td>22</td><td rowspan="2">B6-U</td><td>Ammayapa nagar</td></tr> <tr><td>23</td><td>GRPS1-U Pichai Nagar</td></tr> </tbody> </table> | S. No | Zone | Lifting Station Location | 1 | 1 | (Arimangalum) Arputha Sami Puram | 2 | 2 | Anjanayar Kovil Street | 3 | Diamond Layout | 4 | 3 | Raja Veethi | 5 | Papakurichy Village | 6 | Mahalaxmi Nagar Extn | 7 | 4 | Meenaxi Nagar, S.A.S. Nagar | 8 | Lakshmi Nagar | 9 | B2-U1 | Sri Ram Nagar | 10 | Amman Nagar South Extension | 11 | B2-U2 | Devathanam, Jayakumar Nagar | 12 | Sangeevi Nagar | 13 | B3-U1 | Bharathiyar St | 14 | Vethathri nagar | 15 | Vishwas Nagar Main Road, Thavallur Extn | 16 | B3-U2 | Thigaraj Nagar | 17 | Vekailamman Nagar | 18 | B4-U | Siva Nager Extension | 19 | Mahizhaum poo salai | 20 | B5-U | Pazhaiya Kuttai Road | 21 | Collector office road | 22 | B6-U | Ammayapa nagar | 23 | GRPS1-U Pichai Nagar | <p>No involuntary resettlement/ indigenous people impacts anticipated</p> <p>No involuntary resettlement/ indigenous people impacts anticipated</p> |
| S. No | Zone | Lifting Station Location | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | (Arimangalum) Arputha Sami Puram | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | Anjanayar Kovil Street | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | Diamond Layout | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3 | Raja Veethi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | Papakurichy Village | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | Mahalaxmi Nagar Extn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 4 | Meenaxi Nagar, S.A.S. Nagar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | Lakshmi Nagar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | B2-U1 | Sri Ram Nagar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | Amman Nagar South Extension | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | B2-U2 | Devathanam, Jayakumar Nagar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | Sangeevi Nagar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | B3-U1 | Bharathiyar St | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | Vethathri nagar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | Vishwas Nagar Main Road, Thavallur Extn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | B3-U2 | Thigaraj Nagar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | Vekailamman Nagar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | B4-U | Siva Nager Extension | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | Mahizhaum poo salai | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | B5-U | Pazhaiya Kuttai Road | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | Collector office road | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | B6-U | Ammayapa nagar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | GRPS1-U Pichai Nagar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | <p><u>House Service Connections</u>. Provision of 44,569 house service connections with inspection chambers</p> | <p>Inspection chambers and house service connections will be provided within individual's property boundary. No involuntary LA and R&R envisaged.</p> | <p>No involuntary resettlement/</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sl. No. | Proposed Subproject Components | Scope of Land Acquisition and Rehabilitation and Resettlement | Summary |
|---------|--|--|--|
| | | | indigenous people impacts anticipated |
| 6 | <u>Rehabilitation of Existing STP</u> . Various improvements and repair works to handle augmented flows from old town area | Old STP is located at Panjappur on the Trichy-Madurai highway approximately 7 km south of the city. The land belongs to Trichy Corporation and has huge land area of around 230 hectares. Rehabilitation will be undertaken within the existing facility premises. No LA and R&R envisaged. | No involuntary resettlement/ indigenous people impacts anticipated |
| 7 | <u>37 MLD new STP</u> . Construction of new STP to take additional sewage load from Phase-II area. | <p>The new STP will be constructed at Keelakalkandar Kottai southwest of the city. SPS-6 and STP will be accommodated in same land that belongs to Trichy Corporation and the total site area is around 4.2 acres. Construction of STP will require 12,093 m² land and adequate land is available.</p> <p>Though a lot of agricultural activities are seen around the STP site, the STP site is barren, covered sparsely with bushes and vegetation. An agricultural threshing platform (CPR) is present at the entrance of the site constructed by erstwhile Karkam village panchayat (now merged into Trichy corporation) to support nearby agricultural activities. Though a lot of mechanisation has been taken place over the years, the threshing platform is still used by nearby agricultural owners (~200 people) during harvest time for threshing, grain drying and loading/unloading purposes. This platform may not be accessible once the construction of STP starts and when the STP is operational. Construction of a new threshing platform to replace the existing one will be required at a nearby location, and should be suitable for existing users. ULB is in process of identifying land and will find suitable government land in the vicinity. The ULB will also obtain NOC/EUP if required. The site for the new / replacement platform will be finalized in consultation with existing users.</p> | Construction of new threshing platform at suitable location (CPR) which will be used by ~200 people (approx. size 40m x 40m) |

CPCL = Chennai Petroleum Corporation Limited, CPR = Common Property Resource, DWC = double walled corrugated, EUP = enter upon permission, GCC = Greater Chennai Corporation, km = kilometer, LA = land acquisition, mld = million liters per day, m² = square meter, mm = millimeter, NOC = no objection certificate, ROW = right of way, R&R = resettlement and rehabilitation, SPS = Safeguard Policy Statement, STP = sewage treatment plant.

Source: Trichy UGSS DPR, TCC and site visits.

III. SOCIOECONOMIC INFORMATION AND PROFILE

9. Transect walks identified a total of 74 affected persons whose business is likely to be temporarily affected during pipe laying, as they carry their activities within/very close to ROW. These businesses are mainly flower, fruits, vegetable sellers (44%) and eateries (34%), and the remaining (22%) are petty shops, automobile/ scrap/ welding units, small furniture/ carpentry shops and electric/ paint shops. Some of the surveyed affected persons indicated that they sometimes make rounds in nearby areas to sell their wares though their location is generally fixed. As high as 76% use road ROW for storage or display of wares, which they can and are willing to shift, given adequate notice. The main business activity takes place within the shops and is likely to be able to continue. Only 13% of affected persons have small non-movable structures (like kiosks) which can be lifted and placed nearby for the period of construction, from where they can continue their business and will be allowed to shift back to original location post-construction.²

10. Street vending is quite a common practice in many cities of the state including Trichy and close to 54% of the affected persons indicated that they are doing their business at present location for more than 10 years. An additional 19% indicated that they have this fixed location for more than five years while the remaining 27% said they have moved in respective places in last 2-5 years.

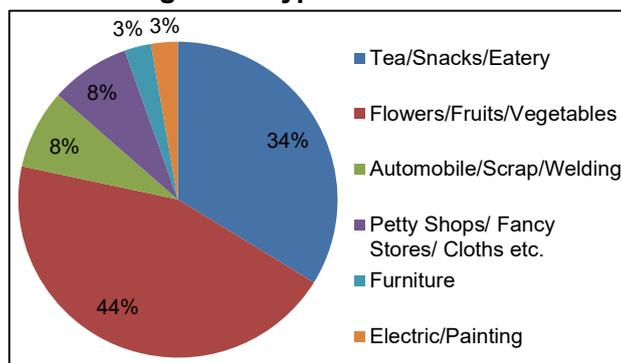
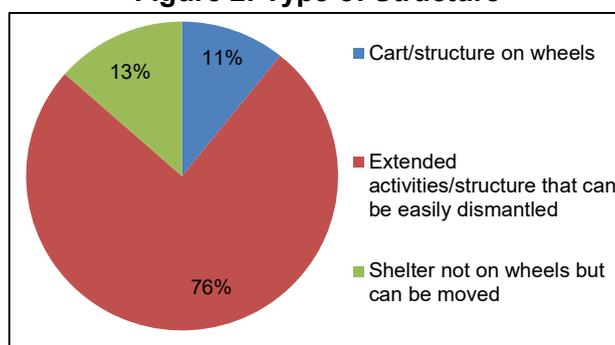
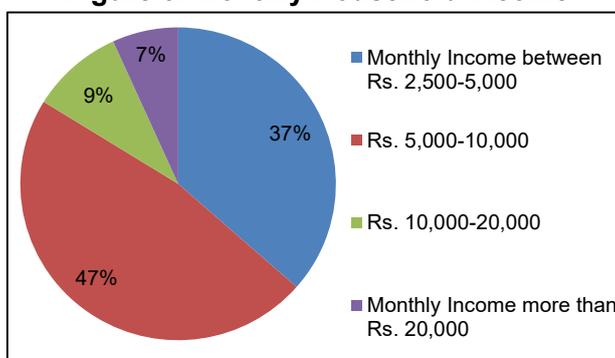
11. A few of the temporarily affected persons have roadside shops and have extended their activities on the road. This means these shops have established businesses and have higher incomes. In line with this, around 13% of the affected persons indicated that they earn monthly income above ₹10,000. More than one third of small businesses (37%) earn monthly income between Rs.2,500-5,000 which is considered below poverty line.³ The remaining 47% affected persons earn income between ₹5,000-10,000. Average monthly income works out at ₹8,365 with minimum at ₹3,000 and maximum at ₹30,000. Considering work week of six days (26 days per month), average daily income is estimated at ₹322 for all affected persons. The overall average is lower than the notified minimum wage rate at ₹643.

12. Of the temporarily affected persons, around 18% affected persons belong to scheduled caste category while the remaining belongs to other backward classes (OBC-92%). No scheduled tribes were identified among the temporarily affected persons during resettlement surveys. Only one affected person was identified as a woman-headed household (WHH), where the head of household is also the sole breadwinner. Total vulnerable affected persons comprise 43% of the total surveyed affected persons.

13. The draft resettlement plan will be updated based on detailed measurement surveys on roads where pipelines will be laid before mobilization of contractor and revised resettlement plan will be submitted to the ADB for approval. A 100% census and socioeconomic surveys will be undertaken to register and document the status of affected people within subproject impact area. Any temporary impacts or costs incurred by affected persons will be identified through the DMS and compensated at replacement cost, in line with the principles of the Resettlement Framework.

² All the above-mentioned businesses are anticipated to face partial loss of income for a period of 25 days during construction.

³ As per data published by the Planning Commission, Government of India, in 2011-12, poverty line in urban Tamilnadu was Rs. 993 per capita per month. On adjusting for inflation, this works out to Rs1,406 per capita per month in 2017, or a monthly household income of Rs. 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.

Figure 1: Type of Business**Figure 2: Type of Structure****Figure 3: Monthly Household Income**

IV. 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 sub-project 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, CBOs, 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 PMU SPO. A citywide stakeholder consultation involving representatives from all stakeholder groups to brief them about the technical details of project and project implementation cycle; project benefits as well as adverse impacts envisaged during construction; environmental and social safeguards, gender inclusion, community participation aspects built into the project etc. was conducted on 3 November 2017 at Trichy. (Newspaper coverage is attached in Appendix 8). Further consultations with the nearby residents of various SPS sites and STP site will be conducted to inform them for proposed work, its likely impacts, and measures adopted to minimize disturbance during construction and regular operation and maintenance (O&M). The outcomes of these will be incorporated in updated RP before implementation.

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 and Technical Assistance Stage

| Activities | Details | Responsible Agency |
|--|---|---------------------------|
| Preliminary awareness about the project activities | City visits and series of meeting with key stakeholders (ULB, TWAD, DC etc. officials) | PMU/ PPTA team |
| Baseline surveys | 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 | 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 | PMU/ PIU/ PPTA team |

PIU = project implementation unit, PMU = project management unit, PPTA = project preparatory technical assistance, TWAD = Tamil Nadu Water Supply and Drainage Board, ULB = 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 subproject records and summarized in sub-project monitoring reports.

18. During revised resettlement plan preparation, PIU/ PMU will be responsible for issuing various required public notices. For temporary impacts, the date of census survey will be considered as the 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/boards in project affected area at a common 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 the same time for the entire city. This will help avoid affected persons moving into other areas and 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 6.

V. 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.

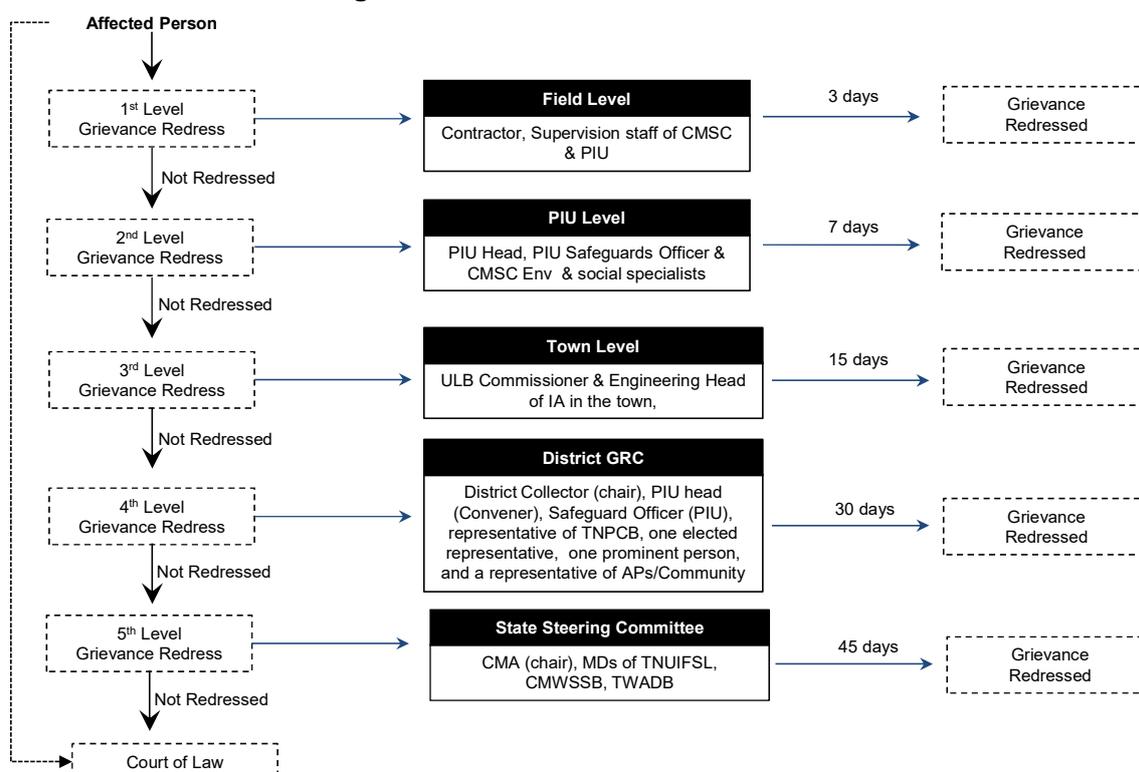
28. **Areas of Jurisdiction.** The areas of jurisdiction of the GRC, headed by the District Magistrate will be: (i) all locations or sites within the district where subproject facilities are proposed, or (ii) their areas of influence within the District. The Steering Committee will have jurisdictional 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 4), 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 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 4: 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 rehabilitation⁴, 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 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.

VI. 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.

⁴ The Authority admits grievance only with reference to the land acquisition and R&R issues under the RFCTLARR, 2013.

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 subproject, including sample subprojects 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 Trichy 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.

VII. ENTITLEMENTS, ASSISTANCE AND BENEFITS

39. Construction of new STP and SPS-6 envisages loss of common property resource (CPR-agricultural threshing platform). In line with the principles and Entitlement Matrix of the TNUFIP, this CPR will be reconstructed before the contract award and start of civil works in the nearest vicinity, in consultation with the community. All costs for the construction of CPR will be borne by the ULB.

40. Potential temporary economic impacts are identified for Trichy subproject ranges 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.

41. Majority of potentially affected persons use movable stalls that 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.

42. 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.

Table 3: Entitlement Matrix⁵

| 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 to Community Assets | | | |
| | 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.

⁵ 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.

VIII. RESETTLEMENT BUDGET AND FINANCING PLAN

43. The resettlement budget for Trichy subproject is estimated at ₹3.51 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 | Qty. | Unit | Unit cost (₹) | Total Cost (₹) |
|----------|---|-------|---------|---------------|------------------|
| 1 | Temporary Income Loss | | | | |
| | Provisional sum for compensation of temporary income loss at notified minimum wage rate ^a for for 74 affected persons for 25 days ^b | 1,850 | Days | 643 | 1,189,550 |
| | Sub Total 1 | | | | 1,189,550 |
| 2 | Reconstruction of Threshing Platform-CPR^c | | | | 1,500,000 |
| | Sub Total 2 | | | | 1,500,000 |
| 3 | Surveys, consultations, grievances and awareness | | | | |
| | DMS Survey for Resettlement Plan updation ^d | | Lumpsum | | 200,000 |
| | Consultation, grievance redress, disclosure ^e | | Lumpsum | | 250,000 |
| | Sub Total 3 | | | | 500,000 |
| | Sub Total 1+2+3 | | | | 3,189,550 |
| | Contingency @ 10% | | | | 318,955 |
| | Grand Total (₹) | | | | 3,508,505 |

Notes:

^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).

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

^c This is an indicative cost and actual cost of construction will be borne by the ULB. ULB is in process of identifying land and will find suitable government land in the vicinity. The ULB will also obtain NOC/EUP if required.

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

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

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

IX. INSTITUTIONAL ARRANGEMENTS AND IMPLEMENTATION SCHEDULE

45. The Municipal Administration and Water Supply Department (MAWS) acting through the TNUFSL 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 program management unit (PMU) for TNUFIP, headed by the Managing Director (MD), TNUFSL acting as Program Director will be established within TNUFSL 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 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 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.

46. 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.

47. **Project Management Unit (PMU).** 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. Social Project Officer (SPO) of PMU will responsible for all land acquisition and resettlement matters from PMU side. PMU SPO will perform responsibilities like: (i) addressing social safeguards issues; (ii) implementing the resettlement framework; (iii) report to Projects Head with respect to land acquisition and resettlement plan implementation in the sub-projects; (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 reports.⁶

48. **Project Implementation Unit (PIU).**⁷ PIUs will be established in each of the participating ULBs within their structure or at TWADB and in CMWSSB. For Trichy 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

⁶ The monitoring report will focus on the progress of implementation of the IEE/EIA and EARF, RP/RF and IPP/IPF, issues encountered and measures adopted, follow-up actions required, if any, as well as the status of compliance with subproject selection criteria and relevant loan covenants.

⁷ If the subproject triggers new LARR, PIU will facilitate land acquisition through District Collector and will provide all details of land acquisition to CMSC SSE/PMU. CMSC SSE will incorporate the same in Resettlement Plan and check its compliance with resettlement framework/ADB SPS 2009 to make necessary additions (if any). PIU will bear the cost of any deviations in the compensation etc. to comply with Resettlement Framework/ADB SPS 2009. Government procedures under land acquisition act can run parallel even though under ADB project required surveys/preparation of resettlement plan will be undertaken. ADB project need to wait for the outcomes of government procedures to finalize the compensation and disbursement of payments.

district administration and GIAC for land acquisition and R&R aspects and addressing any problems and/or delays; (iv) monitoring physical and financial progress on land acquisition and R&R activities; (v) organizing monthly meetings with the PIU to review the progress on R&R; and (vi) share all reports relating to land acquisition, alienation, R&R activities etc. and status to PMU.

49. **Construction, Management and Supervision Consultant (CMSC).** 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 socioeconomic 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 sub-project 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 (PAM) 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.

50. **Governance Improvement and Awareness Consultants (GIAC).** The scope of service will include, but not be restricted to, implementation, monitoring and reporting of the consultation and participation plan (CPP); gender action plan (GAP), 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 (IPP) implementation, if Safeguard Requirements 3 triggered.

51. 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. |
| 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 = project implementation unit, PMU = project management unit, TNUFIP = Tamil Nadu Urban Flagship Investment Program

Table 6: Institutional Roles and Responsibilities

| Activity | Responsible Agency |
|---|---|
| Sub-project 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 | |

| Activity | Responsible Agency |
|--|---------------------------|
| Implementation of proposed rehabilitation measures | PIU/CMSC |
| Consultations with affected persons during rehabilitation activities | PIU/ CMSC |
| Grievances redressal | CMSC/PIU/GRC/PMU |
| Internal monitoring | PMU/PIU/ULB |

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

52. **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 TCC/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/TCC. This will be submitted to ADB through PMU before contract award and start of civil works. RP 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, CMSC = construction, management and supervision consultants, GIAC = governance improvement and awareness consultant, GRC-grievance redressal committee, PIU = project implementation unit, PMU = project management unit.

* 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.

X. MONITORING AND REPORTING

53. 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 POTENTIAL TEMPORARY IMPACTS

| Sl. No. | Type of Business | Years in Businesses at Surveyed Place | Type of Structure (1. Cart/structure on wheels; 2. Extended activities/structure that can be easily dismantled; 3. Shelter not on wheels but can be moved) | | Caste Category | WHH | Monthly Income |
|---------|------------------------|---------------------------------------|---|--|----------------|-----|----------------|
| | | | | | | | |
| 1 | Timber Depot | 10 | 2 | | OBC | | 10,000 |
| 2 | Hotel | 12 | 2 | | OBC | | 20,000 |
| 3 | Scrap Iron Shop | 10 | 2 | | OBC | | 10,000 |
| 4 | MRJ Biryani Center | 10 | 2 | | OBC | | 22,000 |
| 5 | Hotel | 2 | 2 | | OBC | | 10,000 |
| 6 | Welding Shop | 6 | 2 | | OBC | | 12,000 |
| 7 | Painting Shop | 15 | 2 | | OBC | | 8,000 |
| 8 | Welding shop | 18 | 2 | | OBC | | 6,000 |
| 9 | Tea Stall | 15 | 3 | | OBC | | 5,000 |
| 10 | Hotel | 1 | 2 | | OBC | | 10,000 |
| 11 | Tea Stall | 30 | 3 | | OBC | | 5,000 |
| 12 | Hotel | 3 | 2 | | OBC | | 15,000 |
| 13 | Electricals & Plumbing | 35 | 2 | | OBC | | 5,000 |
| 14 | Tea Shop | 10 | 2 | | OBC | | 10,000 |
| 15 | Furniture | 1 | 2 | | OBC | | 5,000 |
| 16 | Hotel | 1 | 2 | | OBC | | 5,000 |
| 17 | Hotel | 6 | 2 | | OBC | | 10,000 |
| 18 | Hotel | 1 | 2 | | OBC | | 10,000 |
| 19 | Tea Stall | 9 | 2 | | OBC | | 5,000 |
| 20 | Hotel | 2 | 2 | | OBC | | 6,000 |
| 21 | Puncture Shop | 2 | 2 | | OBC | | 9,000 |
| 22 | Scrap | 15 | 2 | | OBC | | 8,000 |
| 23 | Chicken Stall | 22 | 2 | | OBC | | 10,000 |
| 24 | Tea Stall | 1 | 2 | | OBC | | 10,000 |
| 25 | Trader | 45 | 2 | | OBC | | 20,000 |
| 26 | Fruits Shop | 1 | 2 | | OBC | | 3,000 |
| 27 | Bike workshop | 10 | 2 | | OBC | | 8,000 |
| 28 | Tender Coconut | 35 | 2 | | OBC | | 3,500 |

| Sl. No. | Type of Business | Years in Businesses at Surveyed Place | Type of Structure (1. Cart/structure on wheels; 2. Extended activities/structure that can be easily dismantled; 3. Shelter not on wheels but can be moved) | Caste Category | WHH | Monthly Income |
|---------|----------------------|---------------------------------------|---|----------------|-----|----------------|
| 29 | Tender Coconut | 37 | 2 | OBC | | 9,000 |
| 30 | Coconut & Groundnut | 20 | 3 | OBC | | 3,000 |
| 31 | Flowers & Fruits | 22 | 2 | OBC | | 3,000 |
| 32 | Flowers | 13 | 2 | OBC | | 6,000 |
| 33 | Sandals | 30 | 3 | OBC | | 6,000 |
| 34 | Flowers & Fruits | 20 | 2 | SC | | 3,000 |
| 35 | Flowers & Fruits | 26 | 2 | OBC | | 6,000 |
| 36 | Fancy Store | 2 | 2 | SC | | 6,000 |
| 37 | Flowers | 5 | 3 | OBC | | 6,000 |
| 38 | Cool Drinks & Tea | 15 | 2 | OBC | | 15,000 |
| 39 | Petty Shop | 12 | 3 | OBC | | 7,500 |
| 40 | Tea Stall | 20 | 2 | SC | | 30,000 |
| 41 | Tender Coconut | 40 | 2 | OBC | | 3,000 |
| 42 | Flower | 5 | 2 | SC | | 3,000 |
| 43 | Tender Coconut | 30 | 3 | SC | | 30,000 |
| 44 | Fruits | 30 | 3 | OBC | | 9,000 |
| 45 | Fruits | 2 | 2 | OBC | | 3,000 |
| 46 | Tiffin Stall | 2 | 2 | OBC | | 24,000 |
| 47 | Fruits | 10 | 2 | OBC | | 15,000 |
| 48 | Flowers & Pooja item | 5 | 1 | OBC | | 3,000 |
| 49 | Banana Leaf | 5 | 2 | SC | | 3,000 |
| 50 | Fruits | 20 | 1 | SC | | 4,500 |
| 51 | Sandals | 1 | 2 | OBC | | 30,000 |
| 52 | Banana Leaf | 25 | 2 | OBC | | 3,000 |
| 53 | Flower | 40 | 2 | OBC | | 4,500 |
| 54 | Banana Leaf | 15 | 2 | SC | | 3,000 |
| 55 | Fruits | 10 | 1 | OBC | | 3,000 |
| 56 | Textile | 18 | 2 | OBC | | 9,000 |
| 57 | Flower | 30 | 2 | OBC | | 3,000 |

| Sl. No. | Type of Business | Years in Businesses at Surveyed Place | Type of Structure (1. Cart/structure on wheels; 2. Extended activities/structure that can be easily dismantled; 3. Shelter not on wheels but can be moved) | Caste Category | WHH | Monthly Income |
|---------|----------------------|---------------------------------------|---|----------------|-----|----------------|
| 58 | Flower & Fruits | 18 | 1 | SC | | 6,000 |
| 59 | Banana Leaf & Banana | 40 | 2 | SC | | 6,000 |
| 60 | Fruits | 30 | 1 | SC | Yes | 4,500 |
| 61 | Flower & Banana | 10 | 2 | OBC | | 6,000 |
| 62 | Fruits | 10 | 1 | OBC | | 6,000 |
| 63 | Flower | 4 | 2 | OBC | | 6,000 |
| 64 | Fruits | 20 | 3 | OBC | | 3,000 |
| 65 | Flower | 8 | 2 | SC | | 4,500 |
| 66 | Banana Leaf & Flower | 50 | 2 | SC | | 3,000 |
| 67 | Fruits | 30 | 1 | OBC | | 15,000 |
| 68 | Snacks | 30 | 1 | OBC | | 9,000 |
| 69 | Cool Drinks | 10 | 3 | OBC | | 6,000 |
| 70 | Fruits & Vegetable | 40 | 2 | OBC | | 6,000 |
| 71 | Vegetable | 30 | 2 | OBC | | 6,000 |
| 72 | Flowers & Fruits | 20 | 2 | OBC | | 9,000 |
| 73 | Flowers & Fruits | 4 | 2 | OBC | | 6,000 |
| 74 | Flowers | 30 | 2 | OBC | | 3,000 |

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.

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 (m) from one edge | 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_ | |
| Tiles | 2 | 50 | 150 | Manual | 0.5 | 50 | Flagmen at both ends. Only pedestrian traffic will be allowed. | -do- |
| | 3 | 100 | 250 | Manual | 0.5 | 50 | -do- | -do- |
| Earthen road | 1 | 50 | 150 | Manual | 0.5 | 50 | Controlled by general operative. Only pedestrian traffic will be allowed. | |
| | 2 | 50 | 150 | Manual | 0.5 | 50 | -do- | |

Notes:

- (i) Works will be carried out with due intimation to ULB / PWD and after stakeholder consultations
- (ii) All service providers (electricity, telecom, OFC, cable TV, gas etc.) shall be notified and consulted well in advance to identify bottlenecks and possible solutions.
- (iii) Reinstatement will be carried out in two phase – 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
SITE PHOTOS – TRICHY**



SPS-1 at Chidambaram Nagar-Ariyamangalam



SPS-2 at Solid waste dumping site, Ariyamangalam, approach road-railway road



SPS-3 at Balaji Nagar / Win Nagar

SITE PHOTOS – TRICHY



SPS-4 at Rajarajeshwari Nagar



Rehabilitation of existing 30MLD plant at Panjapur



STP and SPS-6 at Keelakalkandar Kottai

POTENTIAL AFFECTED PERSONS – TRICHY¹

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

POTENTIAL AFFECTED PERSONS – TRICHY¹



Focus Group Discussions with Temporarily Affected People by Project Preparatory and Technical Assistance Team & TCC Officials

| Location | No. of Participants | Topics Discussed* | Issues Raised |
|--|---------------------|--|---|
| FGD-1 Ariyamangalam Area Ward No: 28 Thanjavur Road, Kamaraj Nagar | Total=4 M=4, F=0 | The participants are running their shops/ businesses in this area for long time; more than 10 years and expressed that they do not have alternate place to go. Their businesses will be affected if construction activities are planned during peak hours. | <ul style="list-style-type: none"> Expressed that they should be informed well in advance about the construction work so that they can shift to other location Indicated willingness to adjust and not spread various wares on the ROW for selling. Activities will be confined within the shops. |
| FGD-2 Srirangam Area Ward No: 9 Karur Bye-Pass Road, | Total=6 M=6, F=0 | The participants are doing business in this area for more than five years and indicated that there is lot of free space available behind their shops till railway track, which can be utilized for laying pipeline, so that their business activities are not affected. They were informed that pipe laying will be purely based on engineering design criteria and they will be informed for final alignment. | <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 Since it is a busy traffic road, proper access needs to be provided during construction even they move little away. ULB should inform them in case major delay in construction work. |
| FGD-3 Ponmalai Area Ward No: 63 Thanjavur Road | Total=5 M=6, F=1 | All participants of the FGD operate at this location for more than five years and have temporary structures. They indicated that they will move little backwards during pipe laying, however work should not be delayed. | <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. Expressed willingness to support as the project is beneficial to the entire city. |
| FGD-3A Ponmalai Area Ward No: 65 Thanjavur Road, Thiruverumbur, | Total=6 M=1, F=5 | All affected persons indicated that this business is the sole earning for their family and they also have taken loan to meet various household needs. Affected persons were not willing to move far away from present location which can affect their daily earnings. | <ul style="list-style-type: none"> Expressed that they should not be shifted very far and construction time should be minimized. |
| FGD-4 Ponmalai Area Ward No: 64 Thanjavur Road, Thiruverumbur. | Total=4 M=0, F=4 | All affected persons have temporary structures that can be easily dismantled and moved. APs indicated that they are very poor and construction activity should not disturb them for longer periods. | <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 |
| FGD-5 K.Abisekhapuram Ward No:52 Vayalur Road, Behind | Total=5 M=3, F=2 | Affected persons at this location mainly use mobile carts and indicated that they will try to move during construction period. However, they would like to continue their business at | <ul style="list-style-type: none"> Expressed willingness to support however equally worried about the project time period/disruption period |

| | | | |
|-----------------------------|--|---|--|
| <p>Government Hospital.</p> | | <p>same location once the work gets over.</p> | <ul style="list-style-type: none"> • Expressed that road should be restored immediately as soon the work gets over • Expressed willingness to support as the project is beneficial to the entire city. |
|-----------------------------|--|---|--|



FGD 1 - Thanjavur road, Ward-28



FGD 2 - Karur Bypass, Ward-9



FGD 3 - Thanjavur road, Ward-63



FGD 3A - Thanjavur road, Ward 65



FGD 4 - Thanjavur road, Ward 64



FGD 5 - Vayalur road

LAND DETAILS

| SI · N o | Component | | Land | | | | Proposals | | | Set backs | Outside Land |
|-------------------|-----------|--|-------------|-----------------------|-------------|--------------|-------------|-------------|-------------|--|---|
| | | Location | Ownership | Classification | Available | Required | Modules | Pathways | Green Belts | Within the Land | |
| 1 | SP S1 | Chidambaram nagar-Ariyaman galam | Corporation | Park | 941.38 Sq.m | 941.38 Sq.m | 579.67 Sq.m | 301.21 Sq.m | 60.5 Sq.m | 6.3m from the well on the North side,38m on the west side,58.5m on the south side and22m on the Eastern side. | Residences are found scarcely scattered on southside of the site which is at a distance of about 22.5m. In the northern side Uyyakondan channel is there at a distance of 15m.Road exist on the western side. |
| 2 | SP S2 | Ariyaman galam (Inside Solid waste dumpyard) | Corporation | Solid waste dump yard | 16.93 ha | 1399.66 Sq.m | 805.59 Sq.m | 360.07 Sq.m | 234 Sq.m | 2.7m from the well on the North side,24.9m on the west side,24.7m on the south side and7.5m on the Eastern side. | Residences are found on south and west side of the site which is about 31.2m , 4.4 m respectively. In western side is existing road. |
| 3 | SP S3 | Win Nagar | Corporation | Park | 12.54 ha | 1628.45 Sq.m | 957.14 Sq.m | 442.31 Sq.m | 229 Sq.m | 4.8m on the north side,28.1m from the south side,25.6m from the east side and 4.9m from the west side from the well | Residential buildings are found on the Northern side of the site at a distance of 45m. There are vacant sites on the Eastern and western sides |
| 4 | SP S4 | Rajarajeshwari Nagar | Corporation | Park | 1286 Sq.m | 1286 Sq.m | 765.26 Sq.m | 288.56 Sq.m | 232.18 Sq.m | 15.2m away from the well on the north,9.2m from the south side,2.0m on the east side of the well and 23.2m from the west side. | Residential building exist on western side of the site at about 12m distance. |

| Sl · No | Component | | Land | | | | Proposals | | | Set backs | Outside Land |
|---------------|-----------|-------------------------|-------------|----------------|-------------------|-------------------|-----------------|-----------------|----------------|---|--|
| | | Location | Ownership | Classification | Available | Required | Modules | Pathways | Green Belts | Within the Land | |
| 5 | SP S6 | Kelakalkandar Kottai | Corporation | Kalam | 14092.8 5 Sq.m | 614.28 Sq.m | 496.01 Sq.m | 83.27 Sq.m | 35 Sq.m | 1.8m on the north side, 1.0m on the west and south side, 4.4m on the east side. | There are vacant sites and agricultural lands on all the sides |
| 6 | ST P | Kelakalkandar Kottai | Corporation | Kalam | 12092.8 5 Sq.m | 12092.8 5 Sq.m | 9777.21 Sq.m | 1970.81 Sq.m | 311.61 Sq.m | 6.6m on the north side, 8.5m on the west, 9.5m on the south side and 8.3m on the east side. | There are vacant sites and agricultural lands on all the sides . |

Source: TCC

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

LAND RECORDS

Municipal Administration and Water Supply Department

From :

**N.Ravichandran, M.Sc., M.Ed.,
Special Officer & Commissioner**
Tiruchirappalli City Corporation
Tiruchirappalli – 620 001



To :

The Executive Engineer
TWAD Board
Sewerage Division
JK Nagar, Kajamalai Main
Road, Trichy – 620 023

Roc No : 1228/2016/E7(Main) Dt.30.05.2017

Sir,

Sub : Tiruchirappalli City Corporation – AMRUT Scheme – Preparation of Detailed Project Report - UGSS Phase II – Submission of DPR - Particulars furnished - Regarding.

Ref : Letter No.19517/F.Trichy Phase II A/JDO/2017 Dt.19.05.2017 of the Executive Engineer, TWAD Board, Trichy.

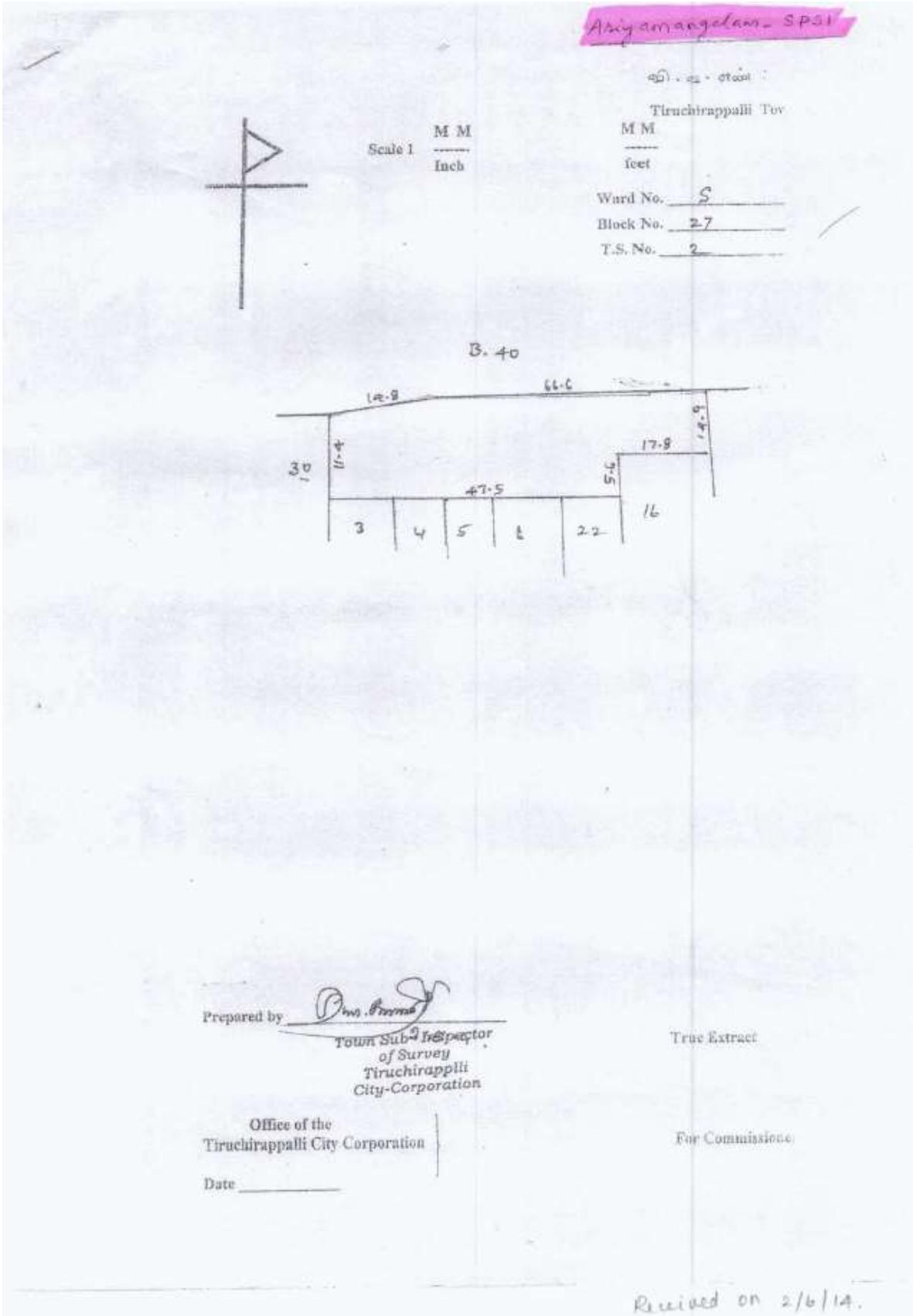
I enclose herewith the following documents as called for in the letter cited :

1. Chitta Adangal
2. Ownership of land
3. Town Survey Extract Sketch

You are therefore requested to do necessary action for early completion of DPR.

Sujan
For Commissioner
Tiruchirappalli City Corporation

20/5/17

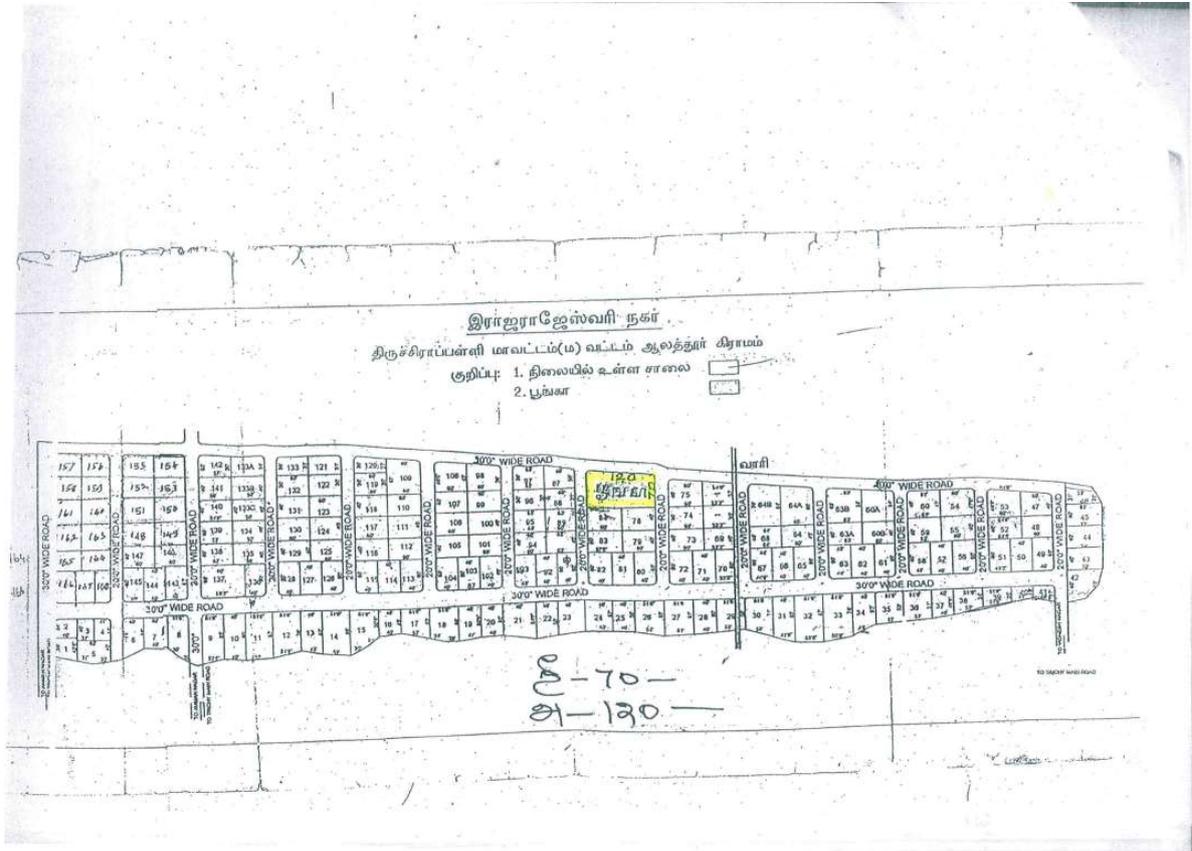


Ariyamangalam - Near Solid waste
dump yard
SPS 2

Extract taken from the town Survey field Register, Tiruchirappalli Town Survey No. 5 Of Ward No. 5 Block No. 58
திருச்சிராப்பள்ளி டவுன் சர்வேயில் ரிஜிஸ்டரிடமிருந்து தயாரித்த நகல்

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | 13 | | 14 | 15 | 16 | 17 | 18 | 19 |
|-----------------|---|---|-----------|---|---|---|---|---|-----|----|-------------------------|--------------|----------|--------------|----|----|-------|-------------------------------------|-------------------------------------|----------------|
| | | | | | | | | | | | ஏக்கர் ஒன்றின் பரப்பளவு | சதுர மீட்டர் | மீட்டர் | சதுர மீட்டர் | | | | | | |
| 52. அரியமங்கலம் | 1 | - | 251 24 | - | 3 | 4 | - | - | 8-3 | 15 | 1 | 24 | 0.0400-0 | - | - | - | III B | திருச்சிராப்பள்ளி மாநகராட்சி ஆணையர் | திருச்சிராப்பள்ளி மாநகராட்சி ஆணையர் | மேலாண்மைத்துறை |
| | | | 251 25 | - | 3 | 4 | - | - | 8-3 | 15 | 1 | 24 | 0.0400-0 | - | - | - | do | do | do | |
| | | | 251 22 | - | 3 | 4 | - | - | 8-3 | 15 | 1 | 24 | 1.5700-0 | - | - | - | do | do | do | |
| | | | 253/1 | - | 3 | 4 | - | - | 8-3 | 15 | 1 | 24 | 3.9700-0 | - | - | - | do | do | do | |
| | | | 252 | - | 3 | 4 | - | - | 8-3 | 15 | 1 | 24 | 5.7550-0 | - | - | - | do | do | do | |
| | | | 259 | - | 3 | 4 | - | - | 8-3 | 15 | 1 | 24 | 7.9500-0 | - | - | - | do | do | do | |
| | | | | | | | | | | | 19-2950-0 | | | | | | | | | |

Office of the Tiruchirappalli Corporation
Prepared by: (20000000) -
Sh. (S. S. S. S.)
1512-2010
TOWN SUB-INSPECTOR
OF SURVEY
TIRUCHIRAPPALLI
CITY CORPORATION
True Extract,
For Commissioner



SP56

சீ. என். 46 கீழ்க்கண்ட டிரிபுளிடர் கோட்டம்.

37

| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
|-----|-------|---|------|-----|-----|-----|-------|---|------|-------|-----|--|
| ... | 81 | அ | 4.0 | ... | ... | ... | ... | 1 | 27.0 | ... | ... | களம் |
| 1A | 82-1A | ர | ந(A) | ... | 2-3 | 3 | 26 23 | 0 | 47.0 | 12 33 | 285 | னி. நாகரெத் தினம்மாள் (1), ந. காந்திமதி யம்மாள் (2). |
| 1B | -1B | ர | ந(A) | ... | 2-3 | 3 | 26 23 | 0 | 50.0 | 13 08 | 188 | மு. மகாலிங்கம் |
| 2 | -2 | ர | ந(A) | ... | 2-3 | 3 | 26 23 | 1 | 00.0 | 26 36 | 125 | ரெ. சுந்தர் ராஜன் |
| 3 | -3 | அ | 4.0 | ... | ... | ... | ... | 0 | 04.0 | ... | ... | வாய்க்கால் |
| | | | | | | | | 2 | 01.0 | 51 77 | | |
| | 83-1 | ர | ந(A) | ... | 2-3 | 3 | 26 23 | 0 | 92.5 | 24 34 | 154 | க. நாராயணன் |
| | -2 | அ | 4.0 | ... | ... | ... | ... | 0 | 14.0 | ... | ... | வாய்க்கால் |
| | | | | | | | | 1 | 06.5 | 24 34 | | |
| | 84-1 | அ | 4.0 | ... | ... | ... | ... | 0 | 17.0 | ... | ... | வாய்க்கால் |
| A | -2A | ர | ந(A) | ... | 2-4 | 4 | 23 47 | 0 | 18.0 | 4 26 | 138 | கோ. செளத் திரம்மாள் |
| B | -2B | ர | ந(A) | ... | 2-4 | 4 | 23 47 | 0 | 44.5 | 10 45 | 138 | கோ. செளத் திரம்மாள் |
| B | -3B | ர | ந(A) | ... | 2-4 | 4 | 23 47 | 0 | 28.5 | 6 65 | 87 | நா. சங்கர ரம்பன் |
| C | -3C | ர | ந(A) | ... | 2-4 | 4 | 23 47 | 0 | 98.0 | 22 99 | 30 | தி. அர்த்த விங்கம் (1), ம. வெளிம சாமி (2). |
| | | | | | | | | 2 | 06.0 | 44 37 | | |
| | 85-1 | அ | 4.0 | ... | ... | ... | ... | 0 | 11.0 | ... | ... | வாய்க்கால் |
| A | -2ur | ர | ந(A) | ... | 2-4 | 4 | 23 47 | 1 | 00.5 | 23 59 | 178 | இ. பிச்சையம்மாள் |
| B | -2ur | ர | ந(A) | ... | 2-4 | 4 | 23 47 | 0 | 16.0 | 8 45 | 36 | யா. |
| C | -2ur | ர | ந(A) | ... | 2-4 | 4 | 23 47 | 0 | 36.0 | ... | ... | ... |

(A)-காவேரியாற்று கிணர் உய்யக்கொண்டான் வாய்

20.6.19
 கிணர் திரவிக் குடிவாய்
 21.6.19

PROPOSED STRUCTURE OF SUBPROJECT INFORMATION DISCLOSURE LEAFLET

Up to 2-3 pages maximum.

| Sub-project Information | Description |
|--|--------------------|
| Name of the subproject, EA/IA and city | |
| Proposed subproject technical details and project benefits | |
| Summary of subproject impacts | |
| Compensation and entitlements | |
| Resettlement Plan budget | |
| Resettlement Plan implementation schedule | |
| Consultation and disclosure requirements | |
| Implementation structure and GRM information | |
| Contact numbers of GIAC, CMSC, PIU, PMU | |

Attach list of APs 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: | |



TIRUCHIRAPPALLI CITY CORPORATION
Providing UGSS Scheme under AMRUT (Phase II)

DATE: 03.11.2017 Venue: Sakthi Mahal, Kattur

| Sl.No | Name of the Beneficiary (Thiruvallargal) | Address | Contact No. | Signature |
|-------|---|--------------------------|-------------|--------------------|
| 1 | | | | |
| 2 | | | | |
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| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | R. Chandrasekaran | 4/163-c Vasanthanagar | 9788758123 | R. Chandrasekaran |
| 17 | M. Kumari | 3/369 Thiruvallargal | 9487359053 | M. Kumari |
| 18 | M. Parvathi Prasad | 3/367 | 9443291251 | M. Parvathi Prasad |
| 19 | K. D. Ramugan | 192 | 9894285149 | K. D. Ramugan |

| | | | | |
|----|-----------------------|--------------------------------------|-------------------------------------|--------------------|
| 20 | V. Devasajulu | 1/556 11th St Cauvery Nagar | 9003034385 | <i>[Signature]</i> |
| 21 | P. VENKATACHARI | " | 9443592800 | <i>[Signature]</i> |
| 22 | V. PALANISAMY | Amman nagar south | 9442221024 | <i>[Signature]</i> |
| 23 | A. Mamickam | " | 9788072570 | <i>[Signature]</i> |
| 24 | A. R. SAIFULISLAM | IDA. | 9443555166 | <i>[Signature]</i> |
| 25 | R. Kannaiah | 5, | 9788543438 | <i>[Signature]</i> |
| 26 | P. Ahmed Nalideen | Plot no 8 | 9443770018 | <i>[Signature]</i> |
| 27 | M. Anand Aravind | 5/137 | ⁰⁸ 6444 9489702162 | <i>[Signature]</i> |
| 28 | S. SIVASI | 4/139 | 9790077175 | <i>[Signature]</i> |
| 29 | L. Manohar | Plot no. 226 | 9443422270 | <i>[Signature]</i> |
| 30 | R. G. Chandrashekar | Plot: 2 L.I.C. area | 9443869668 | <i>[Signature]</i> |
| 31 | V. Sathyaaj | Green Market 20, 21 | 9487154789 | <i>[Signature]</i> |
| 32 | B. Pushparaj | Vasanthan Nagar | 9443747558 | <i>[Signature]</i> |
| 33 | P. Perumal | 4th St. Pathimapuram | 9187019 | <i>[Signature]</i> |
| 34 | K. Palanimalai | 4th Cross - Vigneshwar Presada | 9442134895 | <i>[Signature]</i> |
| 35 | R. BALAKRISHNAN | vignesh nagar | 9443462442 | <i>[Signature]</i> |
| 36 | J.C. ROBERT FERNANDES | Gandhinagar 8th Street | 9894558550 | <i>[Signature]</i> |
| 37 | M. DA | #122 Coorin | | |
| 38 | M. Anil Kumar | Adarsh | 9489702162 | <i>[Signature]</i> |
| 39 | V. VEAYU DHAN | osmanabad | 9489202894 | <i>[Signature]</i> |
| 40 | A. THIAGU | AMMAN Nagar South | 9442424950 | <i>[Signature]</i> |
| 41 | K. KARUPPU | Amman Nagar South | 9448626158 | <i>[Signature]</i> |
| 42 | A. MANGALARAJ | 21. AMMU NALLA N. KACCOLE | 9894911161 | <i>[Signature]</i> |

திருச்சிராப்பள்ளி



மாநகராட்சி

| No | Name | Address | Contact no | Signature |
|-----|-------------------------|---|-------------|--------------------|
| 75 | P. Rajendran | 12, Thimaltham St | 9443590698 | |
| 76 | V. Balasubramaniam | Sengamangalapuram | | |
| 77 | P. Gomachukku Vinayagam | 151-5th Street, Annamalai Nagar Extra | 9487667577 | |
| 78 | P. Sivakumaran | Indraprastha Vasanthapuram | 9597780406 | V. Srinivasan |
| 79 | D. Senthil Kumar | சென்னை | 9789333889 | D. Senthil Kumar |
| 80 | M. S. Senthil Kumar | சென்னை | 9842408000 | P. Senthil Kumar |
| 81 | S. Balasubramanian | 154, Annamalai Nagar | 9443302621 | S. Balasubramanian |
| 82 | A. Senthil Kumar | 86, Senthil Kumar | 9787198839 | A. Senthil Kumar |
| 83 | G. Lakshminarayana | 2/143, Senthil Kumar | 9585557673 | G. Lakshminarayana |
| 84 | P. Arinjayam | 87, Senthil Kumar Extra | 94421-36485 | P. Arinjayam |
| 85 | A. Subramanian |) | 9688338861 | A. Subramanian |
| 86 | R. Senthil Kumar | 6A, Senthil Kumar | 9442776757 | R. Senthil Kumar |
| 87 | R. Senthil Kumar | சென்னை | 9442006346 | R. Senthil Kumar |
| 88 | | | | |
| 89 | V. Gopala Krishna | 10, NGHURU - ST SANGAREM NAGAR Ward - 7 | 9443821241 | V. Gopala Krishna |
| 90 | | | | |
| 91 | S. Senthil Kumar | சென்னை | 9600491363 | S. Senthil Kumar |
| 92 | A. Divyakumar | Cholamangalapuram | 9442533796 | A. Divyakumar |
| 93 | V. Rajagopal | -do- | 9486122880 | V. Rajagopal |
| 94 | K. Balasubramanian | Jamali Ammal | 9443765071 | K. Balasubramanian |
| 95 | | | | |
| 96 | V. Ramesh Kumar | 103, 4th Cross Street | 9944530751 | V. Ramesh Kumar |
| 97 | S. Thangalakudi | 4/28 Vignesh Nagar | 9524436941 | S. Thangalakudi |
| 98 | S. Subramanian | Vignesh Nagar | 9443688578 | S. Subramanian |
| 99 | T. Devi | 6/175, Vasantanagar, North Kuttavur TR7 | 8903406180 | T. Devi |
| 100 | | | | |
| 101 | Rengasai | Vasantanagar North Kuttavur TR7 - 19 | 9443766195 | Rengasai |
| 102 | K. Venkatesh | No. 7, M. V. Nagar, D. N. Road - 19A4-B | 9786613990 | K. Venkatesh |

திருச்சிராப்பள்ளி



மாநகராட்சி

31

| Sl | Name | Address | Contact No | Signature |
|----|---|---|---------------------------|-------------|
| | L. Vithwanatham Dhanu. சிவசுப்பிரமணியன் | 115, Arundel Corridor Lomasu Man Dhanu Association | 94431-00362 9790077187 | [Signature] |
| | M. Sivasubramanian S. Sathiyappa | 3 NAGAR. TR 7B 3/226 Venugopalnagar | 9442502859 9442168923 | [Signature] |
| | M. Gopalanathan S. Chandrasekar | 31814 v. n. nagar Balaji Nagar | 9443833374 99652711196 | [Signature] |
| | P. Rajagopal S. சந்திரசேகரன் | HOTARU ROAD T.K. Rajagopal | 9952842395 9600292495 | [Signature] |
| | U. Balan M. JAYARAJ | 3/213 v. n. nagar Balan Nagar | 9914156781 9443764664 | [Signature] |
| | V. JAYACHANDRAN P. KANDASAMY | Amman Nagar, Balan Nagar | 9442056413 9486063591 | [Signature] |
| | S. STALIN S. XAVIER JAYASEN | Stalin Nagar 4/93 Grandnagar | 9790180537 9442526567 | [Signature] |
| | M. William Chelladurai K. S. Sivaramkrishnan | Plot 24 A, 1st main Kattur, Trichy-19. | 9944186581 9442503127 | [Signature] |
| | S. S. Krishnamoorthy S. Gauthaman. | Plot no 96, 1st cross St Ganesh Nagar, Kattur Trichy 19. | 9443112643 9443153507 | [Signature] |
| | S. Gauthaman S. Gauthaman | 22A. Ganesh Nagar 3rd cross, 5th main Kattur, Trichy 19. | 97875 55338 | [Signature] |
| | G. Gurusamy C. DURAIRAJ | Plot, 6 Amman Nagar 3rd ST. KATTUR. TRY-19 Balaji Nagar 8th cross, 8th cross | 9794079102 9600330886 | [Signature] |

திருச்சிராப்பள்ளி



மாநகராட்சி

33

| Name | Address | Contact No | S.M. |
|------------------|--|------------------|------------------|
| D. HAREKRISHNAN | 32749 Thiru Vee k e. Nagar Patin - Trichy 17. | 9965577091 | Shrey |
| P. MAHENDRAN | 10-11 Saimahmudh Nagan. Adafan mkt | 9442409100 | off |
| P. DHARANJ | 320, 6th ST, Annam nagar (Annam nagar A330) | 9894989037 | P. Dhara |
| S MANIMURUGAN | 2135 A. Gramesh Nagar Kattur - TRY - 19 | 9952800204 | Mani |
| T. MOHANADASS | 4/155, 1st Vasan Nagar North Kattur | 9442688977 | T. Mohanad |
| M. Balaji | 207. Gramesh Nagar 6th. St. Gramesh Nagar | 994620- 47881 | M. Balaji |
| A. MANIKANDAN. | Flat 10th Cross Jokul Nagar, Kattur | 94437 06434 | A. Mani |
| P. Ramanathan | 8 Sector Gramesh Nagar. | 9894536101 | P. Raman |
| R. Sivakumar | president Shanmuga Nagar | 9943879637 | R. Sivakumar |
| V. Goundaraj | #/153 Vasanth Nagar North Kattur | 97897509 | V. Goundaraj |
| P. Palanivel. | Gramesh Nagar 50A. Sheela Nagar | 9443760855 | P. Palanivel |
| A. Sheik Mansoor | Soul Society, Shanmuga Nagar Welfare, Issac U.T. Malai, Trichy Tamil Nadu | 9443786223 | A. Sheik Mansoor |
| S.V. Velayutham | Shanmuga Nagar Welfare Assocn. U.T. Malai Trichy | 9443994189 | S.V. Velayutham |
| M. Anbalagan. | Vignesh Nagar Vignesh Nagar Nagar Associates | 9443694189 | M. Anbalagan |

திருச்சிராப்பள்ளி



மாநகராட்சி

35

| Name | Address | Contact no | Sig |
|-------------------|--|--------------|----------------|
| ① கருத்தினம் | 114 A - 66 பூங்கா, 4 th டிவி, திண்டிவனம் நகராட்சி | 9944295242 | Hrit |
| M. அனிலாசன் | 4/345, திருவள்ளூர் சிவ ச்சன் | 9903443931 | [Signature] |
| S. சண்முகம் | 4/282 - சங்கர பூங்கா | 9442207527 | [Signature] |
| I. அபிந்தாபதி | 4/34. அகாடமி நகர் 428194 | 9952465361 | S. Arthana |
| V. தினகரன் | வடக்கு கமிட்டி துறைமுகம், அகாடமி | 9994904661 | [Signature] |
| M. சந்திரன் | அகாடமி நகர் | [Contact No] | [Signature] |
| R.D. ராஜசேகர் | Plot no 29 III CROSS WEST VIEWAS NAGAR திண்டிவனம் - 8 | 9842169405 | R.D. Rajasekar |
| POSYEDMAHABOOS | 309 பூங்கா நகர் திண்டிவனம் திண்டிவனம் 30 | 9524156695 | P. Sybil |
| P. DEENAYALAN | அகாடமி நகர் திண்டிவனம் திண்டிவனம் 30 | 9600499106 | P. Deenayalan |
| S-RAJENDRAN | வடக்கு கமிட்டி துறைமுகம் திண்டிவனம் 63 | 9655053575 | [Signature] |
| L Vijay Kumar. BE | Plot No 23 திண்டிவனம் திண்டிவனம் திண்டிவனம் | 9442634146 | [Signature] |
| I. ANALRAJ | Plot. No 29, West Viewas Nagar திண்டிவனம் - 19 | 9865748730 | [Signature] |

திருச்சிராப்பள்ளி மாநகராட்சி 37



| Name | Address | Contact no | Signature |
|-----------------------------|--|-------------|--------------------|
| P. Arunachalam | 18 Green meadows North Kattu Tery | 945726698 | <i>[Signature]</i> |
| M. Nandagopalom | 9/824 Kannyopal Nagar Kattu Tery. M | 9788068574 | <i>[Signature]</i> |
| S. Jayaraj K. Thangavelu | 12. KALAIYANAR NAGAR 5/115. Periyar Nagar Kattu Tery | 8778128700 | <i>[Signature]</i> |
| A. Mohamed Ghannu | 75, Madurai Road, Tery | 9585223929 | <i>[Signature]</i> |
| A. Jagan Babu Jayaseelan | NO. 32 Naganand St Ext K. K. K. Tery. M | 9443493659 | <i>[Signature]</i> |
| P. S. S. S. | Plot 142 Prithvya Nagar, 1st Street Mahayathal Kattu | 7094258511 | <i>[Signature]</i> |
| K. Mehdwan | 4, 1st Street Prakash Nagar Ext. | 9443859277 | <i>[Signature]</i> |
| S. John Joseph | 1/324 Philoninalam 3rd South Kattu Tery | 9677626635 | <i>[Signature]</i> |
| S. S. S. | 4/3 1st Street K. K. K. Tery | 9345798511 | <i>[Signature]</i> |
| Jagan | 3/276 2nd Street K. K. K. Tery | 9790053457 | <i>[Signature]</i> |
| P. S. S. S. | 4/2 1st Street K. K. K. Tery | 9791218600 | <i>[Signature]</i> |
| A. S. S. S. | Tery - 11 | 9442659585 | <i>[Signature]</i> |
| S. Ramkrishna | 2nd Street K. K. K. Tery | 9994314271 | <i>[Signature]</i> |
| A. S. S. S. | 15/39 1st Street K. K. K. Tery | 99521548801 | <i>[Signature]</i> |
| R. K. P. S. S. | 1st Street K. K. K. Tery | - | - |
| S. S. S. S. | "Sri Sree Sree" 4/767A 1st Street K. K. K. Tery | 9442502907 | <i>[Signature]</i> |

திருச்சிராப்பள்ளி மாநகராட்சி 33



| Name | Address | Contact No | Sig |
|--|--|-------------|-----|
| Pan keje Murali | 76 Railnagar East Ambikoppam Trichy 4. | 81489410-19 | |
| M. Annol | 76, Annol Vishal Illam, Sanjeevi Nagar, South Extra, Trichy-620002 | 9003376652 | |
| K. Murugasam | 83, Sanjeevi Nagar South Extra, Trichy-620002 | 9894287213 | |
| J. PARIMELUNGAN | 40 m m kadal. Sansar Nagar | 9443532811 | |
| சி. சிவசுப்பிரமணியன் | A.A. சிவசுப்பிரமணியன் | 9488610365 | |
| Jeeva Basakaran | 3/1-70A Gandhi Street TRICHY-4 | 9443592755 | |
| J. Mahalakshmi | 79, Railnagar | 9442181403 | |
| K. Meenakshi. | 79, Railnagar | 9790222955 | |
| H. SUGAN | 1/25 Gandhi Nagar East | 9942720218 | |
| A. Pathma Alphon | 3/20 கி. சிவசுப்பிரமணியன் | 9003375232 | |
| S. Uthayalingam | 3rd cross & 2nd main | 9482769963 | |
| R. Chandrasekaran | 109, Annest, Malayappa Nagar, TRICHY-10 | 7708483539 | |
| M. GURUSAMY | 3rd cross & 2nd main | 9486390669 | |
| S. CHANDRASEKARAN MALAYAPPA NAGAR WELFARE ASSOCIATION. | 109, Annest, Malayappa Nagar, TRICHY-10 | 7904070600 | |
| D. JAYAKUMAR | 8A Annest Street Malayappa Nagar Trichy | 9944773333 | |

4. திருச்சிராப்பள்ளி



மாநகராட்சி

(f)

1. ராமச்சந்திரன் - 99 44530751
 No/3 ஹாஸ்டல்
 கணையம்மாள்
 மாநக. 63

M. சேகர் (வாதுர்மேயலாண்டி)
 சட்டமன்றப்பிள்ளைகள் சிவசுந்தரம் குழுப்பேட்டை மாநகராட்சி
 கங்கலிண்டி சட்டமன்றப்பிள்ளைகள்
 தொலை: 9542551376