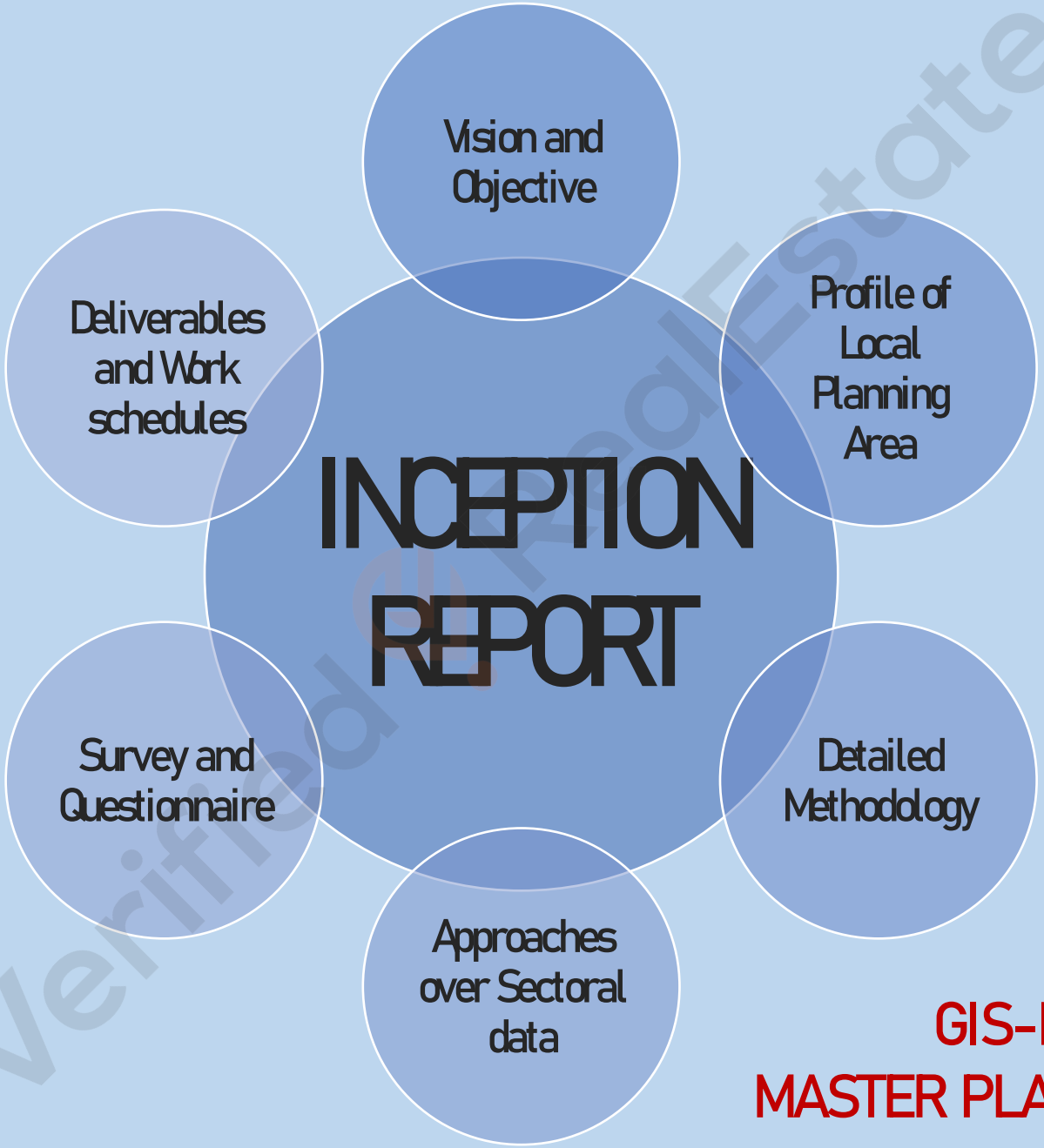
Government of Tamil Nadu

Housing and Urban Development Department



GIS-BASED MASTER PLAN FOR

THIRUKOVILUR

Directorate of Town and Country Planning

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CONTENTS

Chapter		Page No
1.	Vision and Objectives	1
1.1.	Vision	1
1.2.	Objectives	1
2.	Profile of Local planning Area	2
2.1.	About Thirukovilur Town	2
2.2.	Background of study	3
2.3.	Profile of Thirukovilur Town	4
2.4.	Demography	4
2.5.	Geographical Location	5
2.5.1.	Soil	6
2.5.2.	Climate and rainfall	6
2.5.3.	Flora	6
2.6.	Transport Network	6
2.7.	Social Infrastructure	7
2.7.1.	Health care facilities	7
2.7.2.	Educational facilities	8
2.8.	Tourism	8
3.	Detailed Methodology	9
4.	Approaches over Sectoral data	10
4.1.	Stage for Preparation of Thirukovilur Master Plan	10

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4.2. Data collection and base map preparation 10

4.3. Identifying the Issues and Potential 10

5. Survey and Questionnaire 11

5.1 Primary & Secondary Survey 11

5.2 Survey Proforma 11

6. Deliverable and work schedule 16

Annexure - 1 17

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1. Vision and objectives

1.1 Vision:

To protect natural resources, its ancient antiquity and to ensure planned development, the master plan will be prepared for the temple town of Thirukovilur. The master plan helps to improve the quality of life, better service and growth of economics in the town.

1.2 Objectives:

- To protect the authenticity of the religious town by providing proper development in the town and also by encouraging tourism, pilgrims.
- To provide necessary physical infrastructure viz., Water supply, Sewage facilities, Solid waste disposal, Road Network.
- To provide necessary social infrastructure viz., Park, Playfields, Religious, Health and Educational.
- To maximize the use of land by directing developments in the proper directions and locations.

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2. Profile of Local planning Area

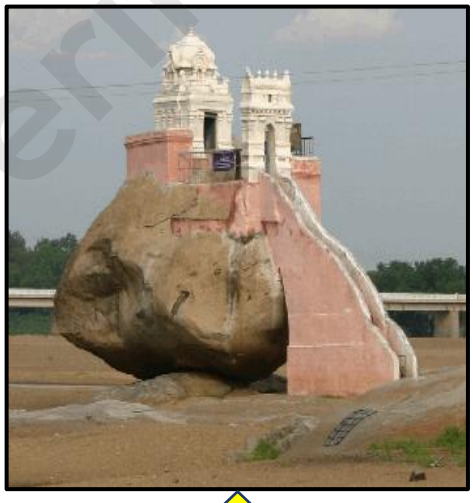
2.1 About Thirukovilur Town:

Thirukovilur is a famous temple town in Kallakurichi District. It is considered as one of the four largest temple towns in the southern region along with the famous pilgrimage towns of Kancheepuram, Madurai and Thanjavur. Thirukovilur is famous for its temples Viz., Ulagalandha perumal kovil, Sri Veeratteswarar temple and famous monument Kabilar kundru.

Ulagalandha perumal kovil is one of the 108 Divya Desam dedicated to Lord Vishnu. This holy shrine was glorified by the first three Alwar. The temple is believed to be built by Medieval cholas.

Sri Veeratteswarar temple is one of the eight veeratta temples dedicated to Lord shiva. This is the eleventh shiva temple in the Nadu naadu region. The saint Sambandar, Appar and Sundarar composed Dhevaram and praised the lord of this temple.

Kabilar Kundru is the most famous place which is located in the middle of Thenpennai River. Kabilar was a saint and it is his last resting place, which is maintained by the state archaeological department.



Kabilar Kundru



Ulagalandha Perumal Temple

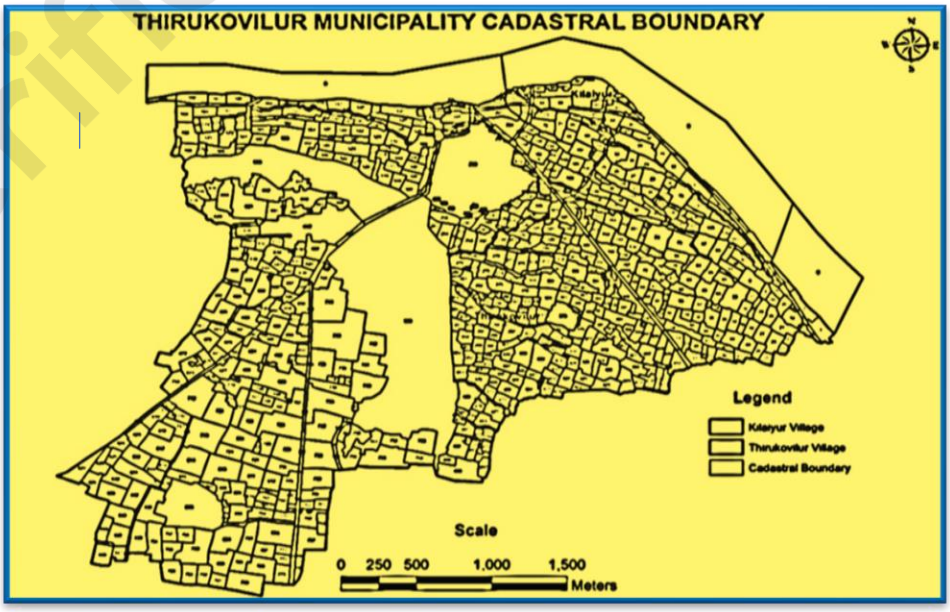
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2.2 Background of study:

A Physical regulatory plan called master plan for any area is prepared under section 17 of Town and Country planning Act, 1971 declaring that the area under section 10(1) and 10(4) in advance. It is created for towns that place an emphasis on zoning laws to ensure the wise use of urban growth poles and its surrounding land.

Notification declared for Thirukovilur master plan issued under section 10(1) of Town and Country Planning Act, 1971 G.O.Ms.23, Housing and Urban Development Department, Dated:09.03.2022.

The Master plan includes analysis, recommendations, and proposals for a town's economy, housing, transportation, physical infrastructure, social infrastructure. It is based on public input, surveys, planning initiatives, existing development, physical characteristics, and social and economic conditions. The master plan adopts comprehensive analysis approach by conceiving all departments sectors together with emphasis on its spatial dimension in the area. Further, a Land use map is prepared on the basis of future requirements for the growth of the town.

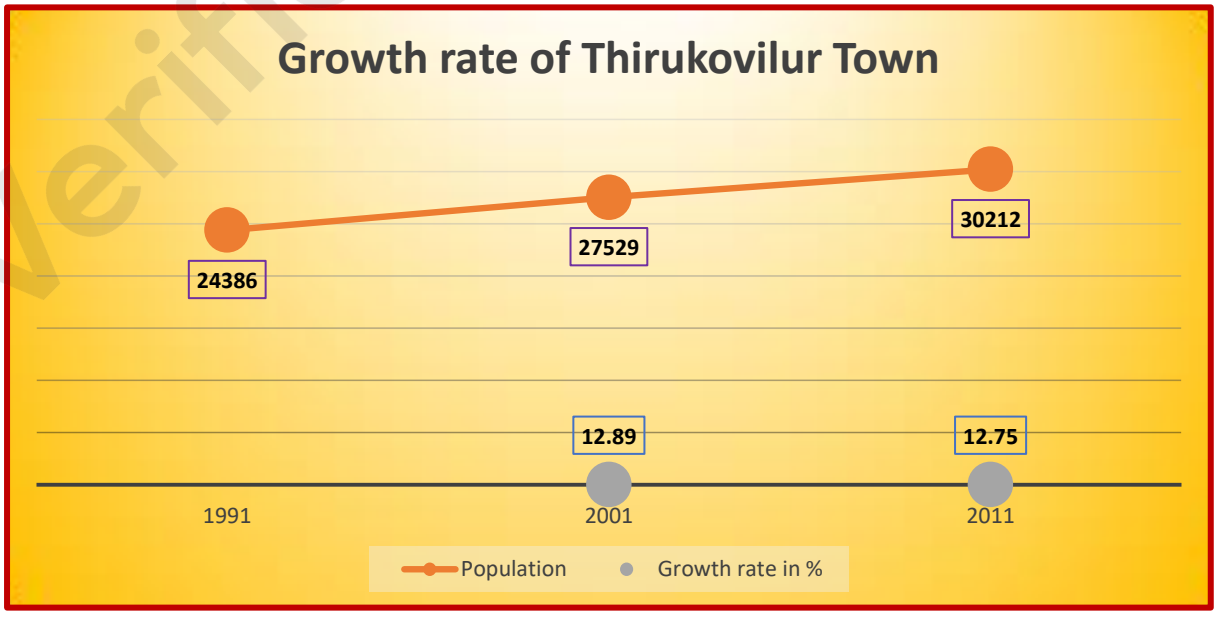


2.3 Profile of Thirukovilur town:

1.	Name of the Town	Thirukovilur
2.	Civic Status	Third - grade Municipality (2021)
3.	Population (2011)	Male - 15051 Female - 15161 Total - 30212
4.	Population Growth Rate (2001-11)	12.75%
5.	Area	11.99 sq.km
6.	Density	2520/sq.km
7.	Name of the Revenue Villages	1. Thirukovilur - North 2. Thirukovilur - South 3. Kilaiyur
8.	Name of the Taluk	Thirukovilur
9.	Name of the District	Kallakurichi
10.	Name of the State	Tamil Nadu

2.4 Demography:

Thirukovilur municipality has a total population of 30212. The density of population of the town per sq.km is 2520 as per 2011.

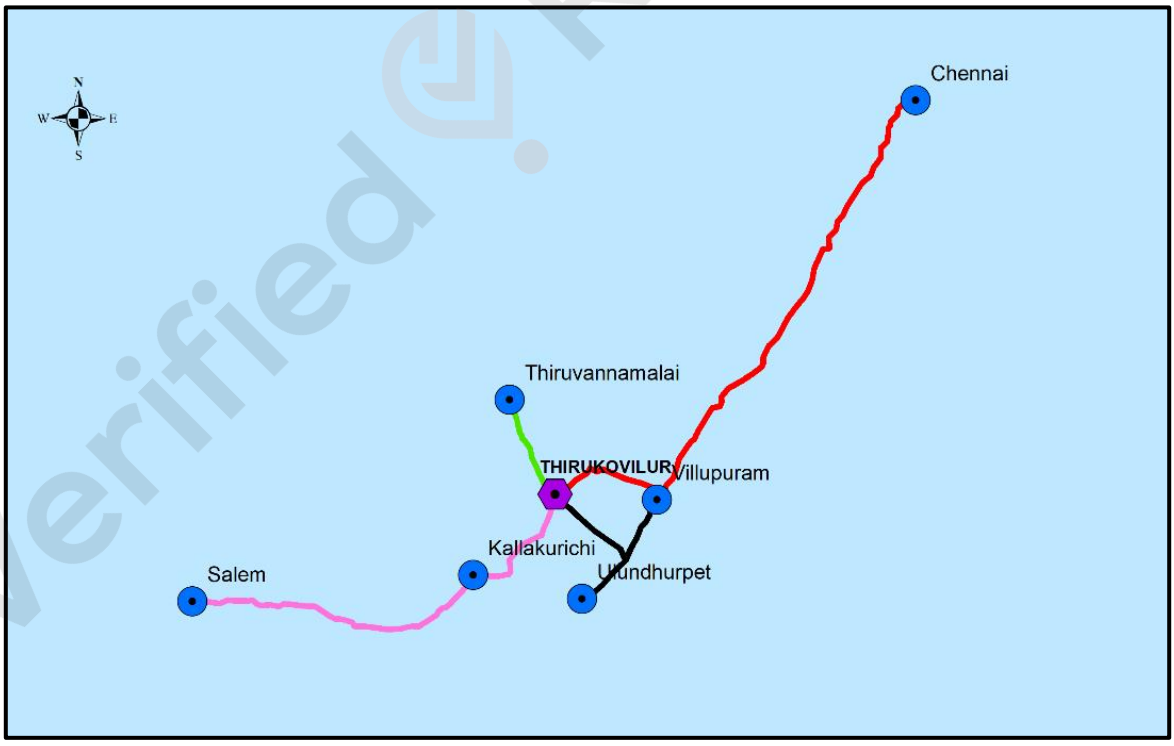


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2.5 Geographical location:

The latitude and longitude of Thirukovilur are 11°58'7.3632"N and 79°12'31.1904"E. It is a religious town in the district of Kallakurichi and is in the civic status of Town Panchayat from 1952 and upgraded as Third grade Municipality on 01.11.2021. The town is situated at elevation of 73m above the mean sea level. . The Thenpennai River flows along the northern border of the town. It is situated 46 km away from the district headquarters (Kallakurichi) and 198 km from state headquarters (Chennai). The town is well connected with adjacent towns Thiruvannamalai, Ulundhurpet and Villupuram.

Connectivity of Thirukovilur with Major Towns



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Thirukovilur railway station is situated on the north side of the Thenpennai River. The railway line is connecting Villupuram and Thiruvannamalai with Thirukovilur

2.5.1 Soil:

Black soil and sandy loam soil are predominant in the Thirukovilur town.

2.5.2 Climate and rainfall:

The climate is moderate to hot. The temperature of Thirukovilur town is between 21^{o}C to 38^{o}C. The town gets its rain fall from the northeast monsoon during the winter months and the southeast monsoon during the summer months. The average annual rainfall is 1070mm.

2.5.3 Flora:

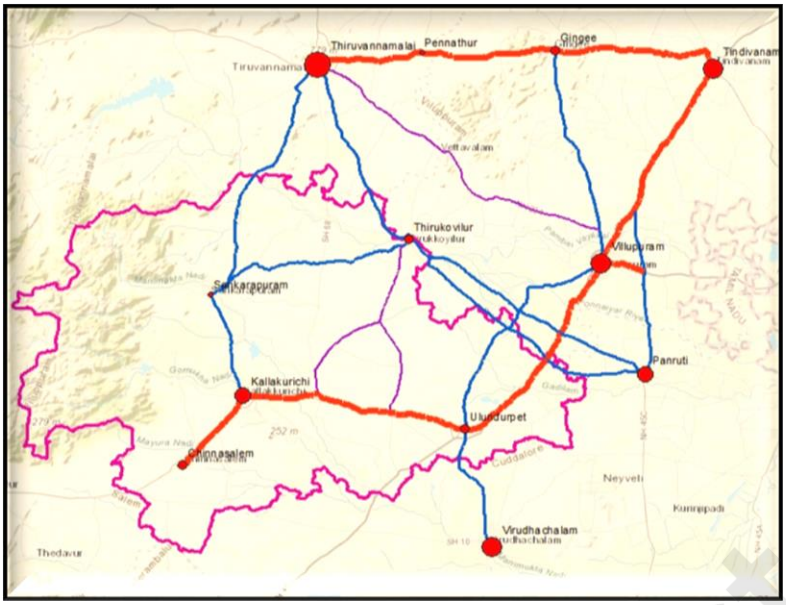
The predominant flora of the Thirukovilur and its environs are Banana, Mango.

2.6 Transport Network:

Thirukovilur town is located on the state highway connecting Cuddalore and Chittor.

Thirukovilur town is also well connected with the neighboring towns such as Sankarapuram, Kallakurichi, Villupuram and Tiruvannamalai through state highway and major district roads.

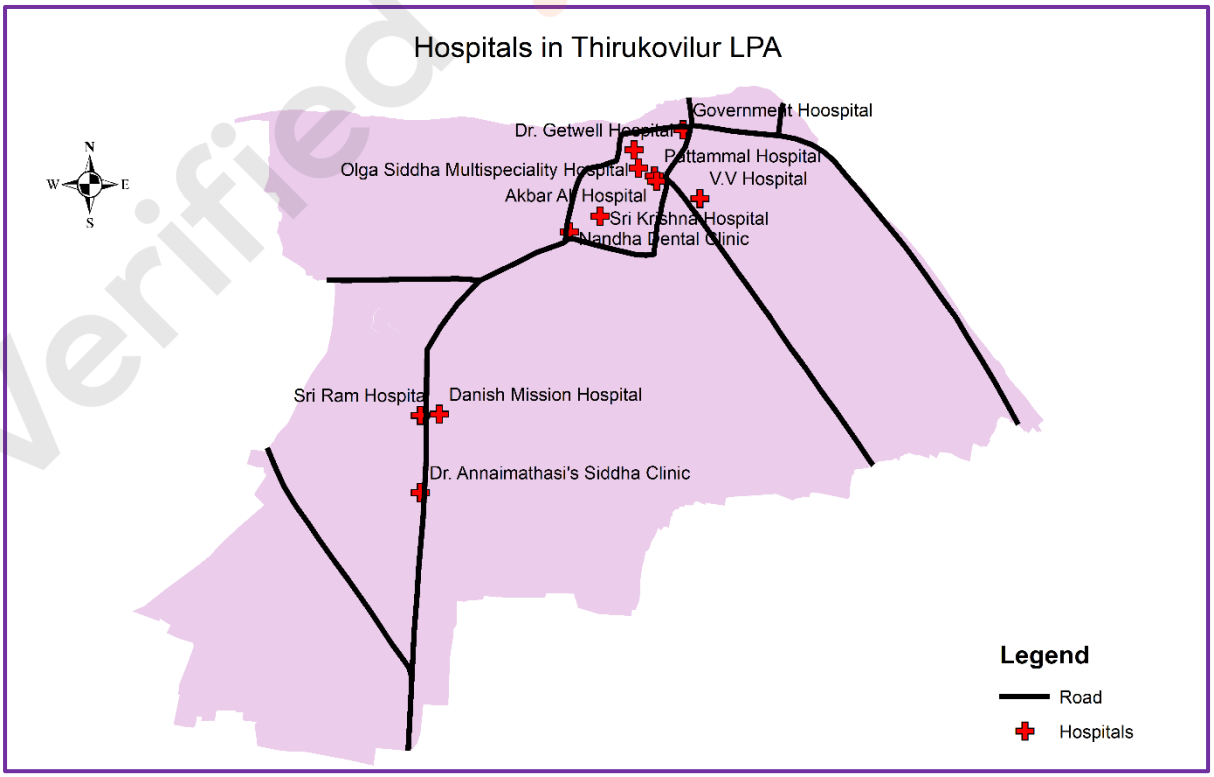
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2.7 Social Infrastructure:

2.7.1. Health Care Facilities:

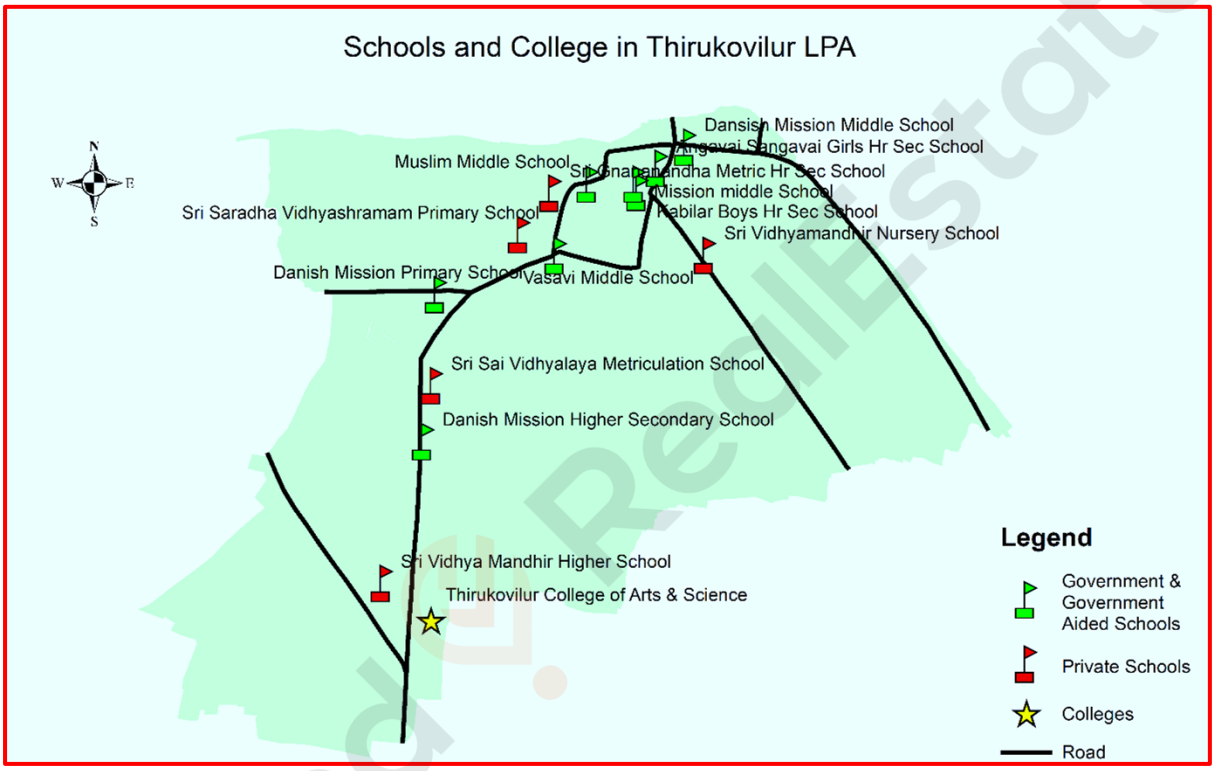
Thirukovilur town is provided with one Taluk Headquarters Government Hospital with 134 beds. It also has 1 primary health center, 4 Sub - health center, 2 poly clinics, 4 maternity centers, 2 Siddha clinics and 1 Unani center.



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2.7.2 Educational Facilities:

Thirukovilur town is facilitated with 1 Government Art and Science and College and 1 Self-Financed Art and science College. And also, it has 12 schools out of which 2 are Government Schools. It supports the literacy growth in the Thirukovilur town.

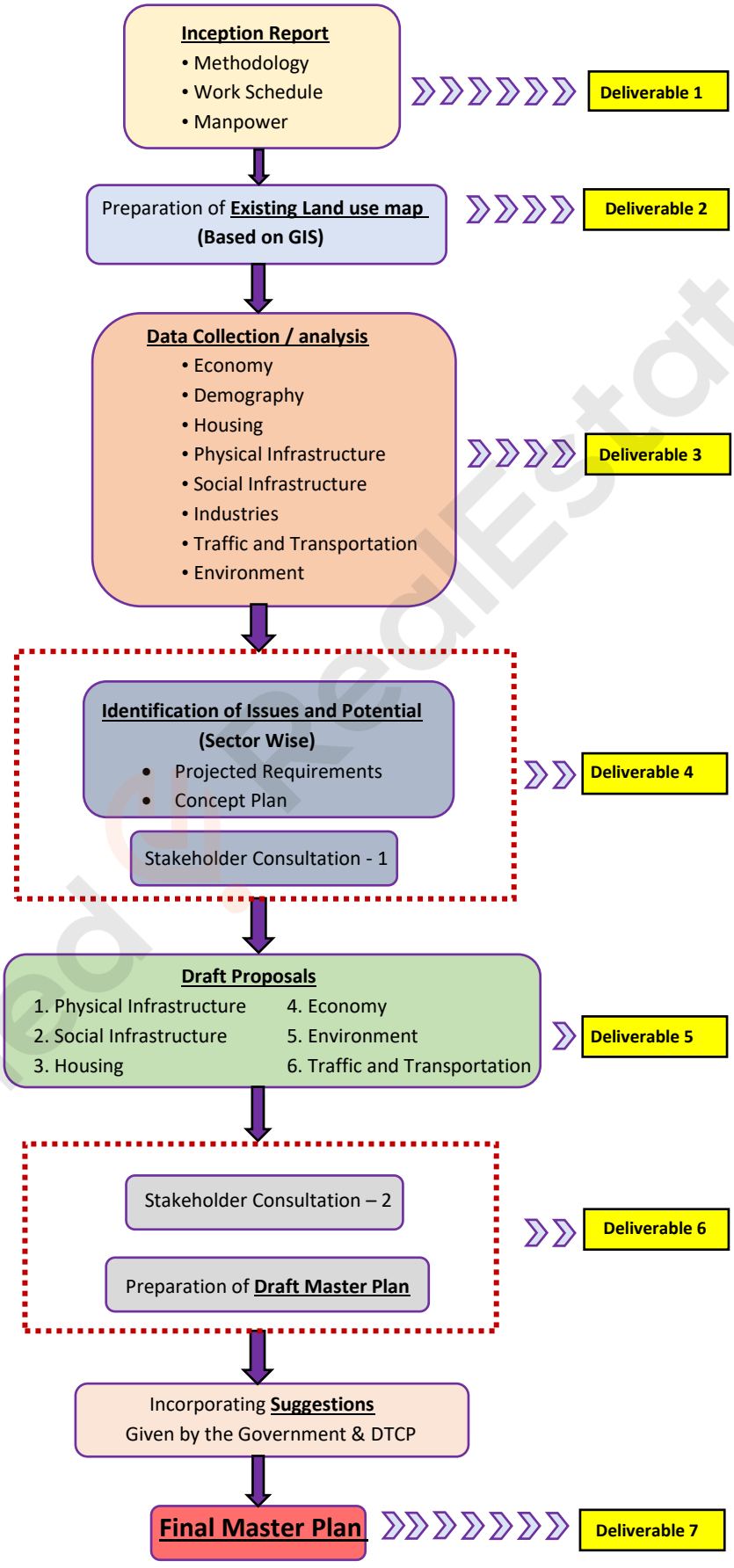


2.8 Tourism:

Thirukovilur is a famous pilgrim town. Tourists from Karnataka and southern region visit the Thirukovilur town to worship Ulagalandha perumal kovil, Sri Veeratteswarar temple and famous monument Kabilar kundru.

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3. Detailed Methodology



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4. Approaches over Sectoral data

4.1 Stage for Preparation of Thirukovilur Master Plan:

The different steps that go into creating a master plan based on GIS. The following time frame pertains to Thirukovilur town.

- Inception report
- Spatial attribute collection and vetting of base maps.
- Data analysis report.
- Housing and occupation.
- Physical infrastructure
- Social infrastructure.
- Projected requirements, issues and potentials.
- Draft proposal and draft master plan.

4.2 Data Collection & Base Map Preparation:

For the purpose of base map preparation for Thirukovilur town, the required data will be collected from thirukovilur taluk office including the A-register, field measurement book, village map, adangal and if any future development proposals for the concerned departments. Also, all necessary data will be collected from Thirukovilur Municipality and lined departments like Education, Health, Highways, HR&CE, PWD, Statistics, TNEB, etc. Base map will be prepared with satellite imagery.

4.3 Identifying the issues and Potentials:

After the preparation of the base map. The ground truthing process will be carried for the town. In the meantime, the issues shall be identified simultaneously.

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5. Survey and Questionnaire

5.1 Primary & Secondary Survey:

Primary, Secondary survey are mandatory for preparation of master plan. Data like Traffic, land use, road network will be directly collected by field surveying are considered as primary source of data. These data are also collected by following method includes interviews, questionnaires, observations.

Land and records and census of India and data from department of economics and statistics will be used as secondary data for the preparation of master plan in Thirukovilur town.

5.2 Survey Proforma:

S.No	Subject/sector	Sub category	Source
1	**Physical setting**	Topography	Dept of Agricultural and revenue
		Climate	
		Soil	
		Rainfall	
2	**Geography**	River	PWD (WRD)
		Streams	
		Lake and channel	
3	**Demography**		Census of India Municipal records
i	Population growth	Population Growth in past decades	
Ii	Sex ratio	Sex ratio in past decades	
Iii	Age- sex distribution	Age - sex distribution in past decades	
iv	Migration in past decades		

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v.	Population density	Population/ area	
4	**Occupational Pattern**	Workers in Primary sector, secondary sector, and tertiary sector	Census of India
i	Primary sector	Workers in agriculture/forestry/Sericulture/ Mining &quarrying	
ii	Secondary sector	Workers in manufacturing, Large, Medium and cluster of MSME and House Hold industries	
iii	Tertiary sector	Trade and commerce transport and communication, storage activities Formal activities like banking, insurance ,real estate etc Informal sector like informal trade, commerce	
5	**Existing Land Use (Category)**	**Extent in ha**	Revenue records from land and survey department, Physical Survey
	i. Residential		
	ii. Commercial		
	iii. Industrial		
	iv. Education		
	v. Public& semi-public uses		
	vi. Agricultural use		
5	**Physical Infrastructure**		Municipal records & Physical survey
i	**Water supply**		
	Existing water supply system	Maintained & Operated by TWAD Board Urban Local Body	TWAD Board or ULB

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		Sources of water supply			
		Location of Head works Capacity			
		OHWT			
		Quantity of water supplied by each scheme per day to ULBs			
		Frequency of water supply per day			
		Treatment facility			
ii	**Storm water drainage**	Details of storm water drains			Municipal records & Physical Survey
		Disposal site of storm water			
iii	**Roads**	**No.**	**Length in metre**		Municipal records & Physical survey
	No. of roads with Storm water drain				
	No. of roads without Storm water drain				
	Total				
	Mode of disposal of Storm water				
i**v**	**Sewage Disposal and Sanitation**				TWAD Board, Municipal records & Physical Survey
	No. of community toilets	**Location**	**No.**	**No. of seats**	
		Total			
	No. of HH with toilets & septic tanks				
	No. of HH without toilets & septic tanks				

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v	**Roads**	NH	SH	MDR	ODR	VR	Municipal records &Physical Survey
	Length of roads in metre						
	Breadth of roads in metre						
	Total						
vi	**Street Lighting**						Municipal records & Physical Survey
	No. of streets with St. lights						
	No. of streets without st.lights						
vii	**Solid waste disposal**						Municipal & village records Physical Survey
	No. of Household (HH)						
	Collection Point						
	Total	**Location**			**Area/HH covered**		
	Mode of transporting solid waste						
	Location and extent of disposal yard Segregation of Bio- degradable waste and Non-Bio- degradable waste						
	Practice of Scientific method of converting waste into manure	Location and extent of garbage yard					

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6	**Social Infrastructure**				Municipal & village records & Physical Survey
i	**Education**	**Location**	**Extent**	**Enrolment**	
	Colleges				
	Higher secondary school				
	High school				
	Secondary school				
	Primary school				
	Nursery school				
ii	**Health facility**	**Location**		**No. of beds**	
	Primary Health centre				
	Taluk Head quarter hospital				
	Mpl Hospital				
	Maternity centre				
	Siddha hospital				
	Pvt. Hospital				
	Pvt. Clinic				
iii	**Parks, Playgrounds & Open space**	**Location**		**Extent in sq.m**	
	Notified Parks, Playground & Open space				

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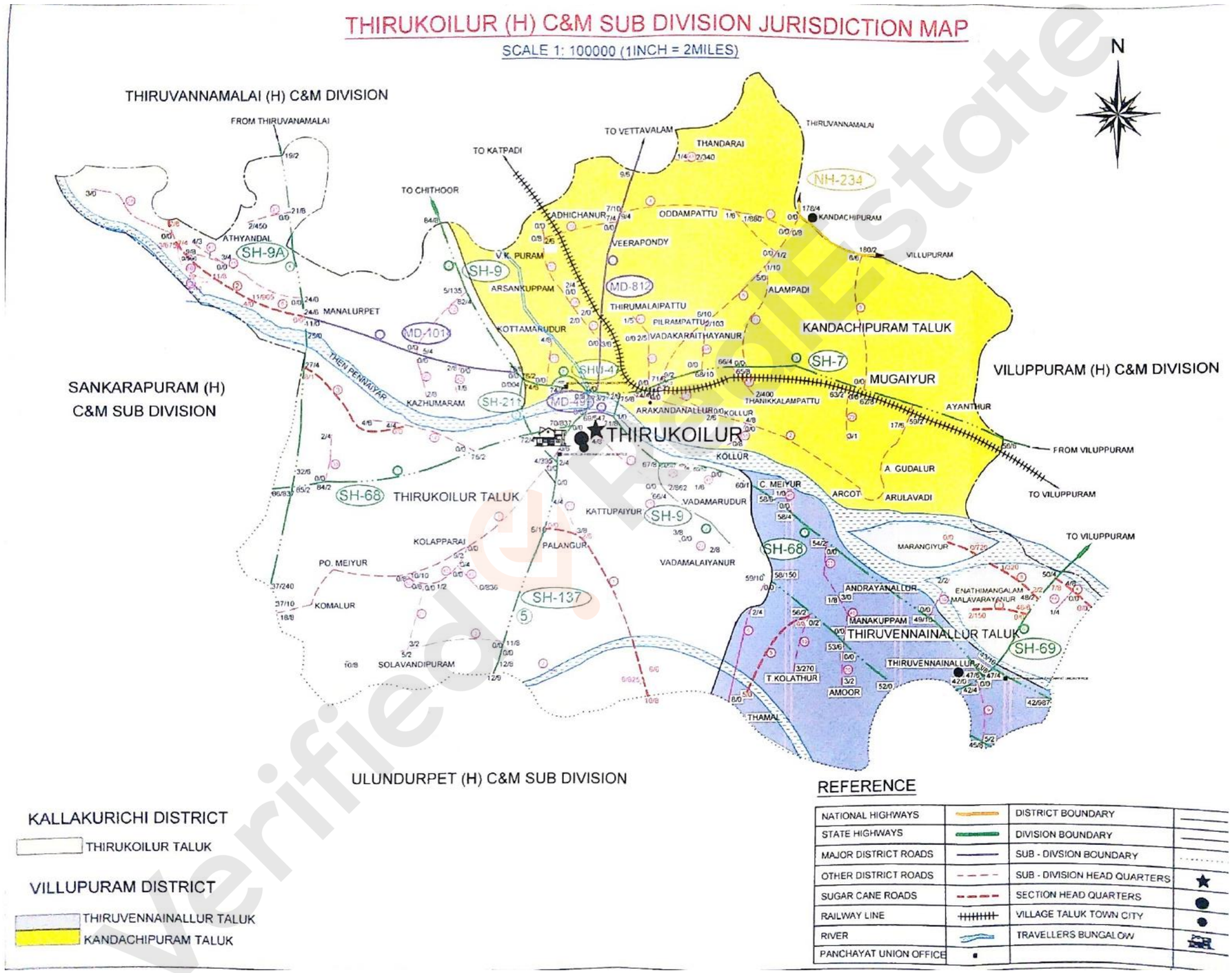
6. Deliverables and Work schedules

Thirukovilur master plan is scheduled to complete and deliver the following task as listed below

S.No	Task	Tentative Timeline
1.	Inception Report	25.10.2022
2.	Preparation of Base Map	31.10.2022
3.	Data collection and Its Analysis	15.11.2022
4.	Issues and Potential	30.11.2022
5.	Projected Requirements	30.11.2022
6.	Proposal for Draft master plan	15.12.2022
7.	Draft Master Plan	31.12.2022

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Annexure - 1



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