‘Buy Land Today and Become Lord Tomorrow\(^1\),
Land Governance in the Peri-Urban Region of Chennai

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\textit{Pratheep Purushothaman}  
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Members of the Examining Committee:

Dr. Joop de Wit  
Dr. Sunil Tankha

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\footnote{\textsuperscript{1} The Tittle phrase is adopted from a Real Estate Advertisement that I came across during field visit}
Disclaimer:

This document represents part of the author’s study programme while at the Institute of Social Studies. The views stated therein are those of the author and not necessarily those of the Institute.

Inquiries:

Postal address: Institute of Social Studies  
P.O. Box 29776  
2502 LT The Hague  
The Netherlands

Location: Kortenaerkade 12  
2518 AX The Hague  
The Netherlands

Telephone: +31 70 426 0460

Fax: +31 70 426 0799
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<th>Abbreviation</th>
<th>Full Form</th>
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<tbody>
<tr>
<td>AU</td>
<td>Anna University</td>
</tr>
<tr>
<td>CMA</td>
<td>Chennai Metropolitan Area</td>
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<tr>
<td>CMBT</td>
<td>Chennai Mofussil Bus Terminus</td>
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<td>CMDA</td>
<td>Chennai Metropolitan Development Authority</td>
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<td>DTCP</td>
<td>Directorate of Town and Country Planning</td>
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<tr>
<td>ECR</td>
<td>East Coast Road</td>
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<tr>
<td>FAO</td>
<td>Food and Agriculture Organization</td>
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<tr>
<td>FDI</td>
<td>Foreign Direct Investment</td>
</tr>
<tr>
<td>FICCI</td>
<td>Federation of Indian Chambers of Commerce and Industry</td>
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<tr>
<td>G20</td>
<td>The Group of twenty</td>
</tr>
<tr>
<td>GDP</td>
<td>Gross Domestic Product</td>
</tr>
<tr>
<td>GoI</td>
<td>Government of India</td>
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<td>GoTN</td>
<td>Government of Tamil Nadu</td>
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<tr>
<td>IAMWARM</td>
<td>Irrigated Agriculture Modernisation and Water-Bodies Restoration and Management</td>
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<td>INGO</td>
<td>International Non-Governmental Organization</td>
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<tr>
<td>IT</td>
<td>Information Technology</td>
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<tr>
<td>ITeS</td>
<td>Information Technology enabled Services</td>
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<tr>
<td>JNNURM</td>
<td>Jawaharlal Nehru National Urban Renewal Mission</td>
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<td>LGI</td>
<td>Land Governance Indicator</td>
</tr>
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<td>MMDA</td>
<td>Madras Metropolitan Development Authority</td>
</tr>
<tr>
<td>NH</td>
<td>National Highway</td>
</tr>
<tr>
<td>NRI</td>
<td>Non Residential Indian</td>
</tr>
<tr>
<td>OMR</td>
<td>Old Mahabalipuram Road</td>
</tr>
<tr>
<td>PAC</td>
<td>Potential Available Cropland</td>
</tr>
<tr>
<td>SEZ</td>
<td>Special Economic Zone</td>
</tr>
<tr>
<td>SH</td>
<td>State Highway</td>
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<tr>
<td>SIPCOT</td>
<td>State Industries Promotion Corporation of Tamil Nadu</td>
</tr>
<tr>
<td>TCPO</td>
<td>Town and Country Planning Organization</td>
</tr>
<tr>
<td>TI</td>
<td>Transparency International</td>
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<tr>
<td>TN</td>
<td>Tamil Nadu</td>
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<tr>
<td>TNTCPA</td>
<td>Tamil Nadu Town and Country Planning Act</td>
</tr>
<tr>
<td>VAO</td>
<td>Village Administrative Officer</td>
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Abstract

Land has been the source of livelihood particularly among peasants across the since ages. With the limited supply and ever increasing demand due to reasons like food production, industrialization and urbanization, land is considered to be an important asset. Of late, there are many instances in which land is being converted from agricultural use to non-agricultural uses. This paper two main processes of land-use conversion. One by means of forceful acquisition by powerful actors including the State and other the land owners willingly parting away with the land. This paper focussed on land-use conversion in the peri-urban region of Chennai, where it happens with consent of farmers. The land-use conversion happens in spite of national and state policies to prevent the conversion of agricultural land. This paper investigated the formal dynamics and informal mechanisms and the roles of various stakeholders in land-use conversion by studying policies, media reports and various published sources. Further, discussions with various stakeholders in a selected village in peri-urban Chennai established that informal mechanisms overpower the implementation of policies that prohibit land-use conversion. This paper sought to make some modest recommendations and suggests making farming a viable option might help in reducing land-use conversion. The means to achieve this needs a detailed research in itself.

Relevance to Development Studies

This work attempts to understand the role of stakeholders and their influence in implementing policies pertaining to land-use conversion in peri-urban region within in the context of formal dynamics and informal mechanisms thus establishing relevance to the broader field of Development Studies

Keywords

Land Governance, Land-use, Peri-urban, Formal Dynamics, Informal Mechanisms, Policy Implementation
Chapter 1 Introduction

We are in the times, when the food prices are dramatically increasing and the entire World is concerned about the food supply. Many countries are investing in land in other countries as pointed out by Pearce(2013:7) ‘Gulf sheikhs, Chinese state corporations, Wall street speculators, Russian oligarchs, Indian microchip billionaires…are sourcing the globe for cheap land to feed their people’. It is the increasing demand for land, a finite resource, due to globalization and urbanization has led to competition in using this resource. With the expected world population of more than 9 billion by middle of this century and nearly 67% of whom are expected to live in cities, urbanization is one major factor that affects the land-use change globally (Seto and Reenberg 2014:1).

‘More urban land area will be developed during the first three decades of the twenty-first century than all of human history’ (ibid:4).

Lambin and Meyfroidt (2014:12) note that globally there is less Potential Available Cropland (PAC) – a land that could be used for rain fed farming with low capital investment that what is assumed available. They add that the crop land might become a ‘scarce resource’ in most developing countries by 2030. On the one hand, the availability of cropland is showing a downward trend, and on the other Australian Bureau of Agricultural Resource Economics Science (in Seto and Reenberg 2014:4) estimate the total world demand for food will increase three times the population by 2050. The competition between ‘urban land-use and intensive agriculture’ is considered as one of the key ‘friction point’ in the global land-use change particularly in the developing economies (Lambin and Meyfroidt 2014). Study by Angel and other as cited by (ibid) nearly half of the urban expansion will happen by converting the fertile agricultural land. Gregory(2014:28) notes that most of conversion from agricultural land to urban use will happen in the periphery of the existing cities and they add that the land surrounding the city is generally fertile as it was from where the city was meeting its food demand.

This research paper attempts to understand the problem of land-use conversion in a fast expanding Indian metropolis, Chennai. ‘Chennai is growing economically and demographically’ and it is the ‘globalization hotspot’. ‘It is a magnet for considerable foreign direct investment and economic transformation’ (Dowal and Monkkonen 2007:10). The Chennai Metropolitan Area (CMA) is roughly semi-circular in shape with extension in North, South and Western directions (CMDA 2008a:6). With a population of less than half a million during 1901 to nearly 5 million as per the latest census in 2011(GoTN 2011:16), Chennai city has grown manifolds.

‘Population and economic growth do not take place in thin air; they require land and lots of it’ (TCPO 2006:197). Hence, in order to meet the land requirement, the city has expanding by engulfing the surrounding villages into its fold. From 1971 until 2006, many villages in the surrounding areas of Chennai city are absorbed into the folds of the Chennai Metropolitan Area
To coordinate the city expansion activities, the Chennai Metropolitan Development Authority (CMDA) was constituted in the year 1972. The CMDA acts as ‘secretariat of the metropolitan planning committee’ for the entire CMA region (CMDA 2008b:iii).

To satisfy the needs of development, there are changes in the land-use within the boundaries of the CMA. The villages that are part of CMA were ‘generally fertile’ particularly in the North and Western corridors. However, since 1980, the agriculture activity within CMA was gradually decreasing and it is ‘abysmally minimal’ (CMDA 2008a:9). Over the period of 20 years from 1980 to 2001, the percentage of agricultural zone has drastically come down all over CMA, ‘much more land was converted away from agricultural use between 1991 and 2001 than in the previous decade’. At present, the agriculture land exists only near the boundary of CMA (Dowal and Monkkonen 2007: 28). Interestingly, it becomes a newspaper article to find a cultivating farmer in the CMA region, as published by The Hindu (2013) titled ‘A farmer amidst us’. This indicates that most of the CMA is urbanized and the land-use pattern as on 2006 indicates that nearly 50% of the land in the CMA is under residential, industrial, commercial and institutional use. The agriculture occupies just 10% and balance land is classified as ‘others’ which includes lakes, hills, forest cover etc (CMDA 2008a:297). Hence, the further growth might have to happen by engulfing the agricultural land surrounding the CMA.

1.1 Problem Statement

Land is being diverted from agriculture use for two major reasons namely industrialization and to meet the residential demand due to urbanization. In India, ‘the state could forcibly acquire the land from the peasants and tribals and hand it over to private speculators, real estate corporations, mining companies and industry’ (Shiva et al. 2011:vii). The State uses the old land acquisition act of 1894 to acquire land for ‘public purpose’ and there have been deliberation on what exactly is the ‘public purpose’ among the affected people and civil society organisations that give voice to the affected farmers. There have been instance of violence to protest against the State acquiring the land forcefully and displacing people from their ancestral land without adequate compensation and resettlement (ibid).

The other form of land-use conversion is the farmers ‘willingly’ selling the land to the private players, who in turn use the land for non-agricultural uses like residential plots. The growth of the city and the proposal under consideration by the State Government to increase the boundaries of the Chennai Metropolitan Area is paving way for many real estate players, industrialists and even politicians start buying land in the villages that are within CMA limits and those villages that are near CMA boundary. The process of creation of land banks by the state government for setting up SEZs and the law permitting the private players to purchase the land directly from the farmers (Vijayabaskar 2010:39) has led to increased prices of the land is further adding to the demand of land in these villages. This increase in the demand of land is giving rise to speculation.
of land prices in the villages in the rural-urban fringe area (Dowal and Monkkonen 2008:155). The rise in demand for land due to speculative reasons, and the limited supply, as Mark Taiwan (in Pearce 2013:7) called it ‘Buy land, they are not making it anymore’ makes the private players to offer higher prices than the government determined prices.

The fact that agriculture has ceased to be an income generating occupation with low return on investment along with high prices offered to the land and has made farmers to see land as ‘store of value’ than as an option of livelihood (Vijayabaskar 2010:42). The farmers see an economic opportunity in selling the land they own to private players like real estate developers, who see investing in land is a profitable activity. (Visser 2013:1) notes ‘The fact that so many companies do invest in land can easily be interpreted as proof that land investment is indeed a profitable business’. The Private firms generally collaborate with a local intermediary to acquire the land in the village. The intermediaries act as forerunners by selling their lands and then talk to other people about the ‘positive’ aspects of selling the lands (Vijayabaskar 2010:41).

‘The relatively silent process of land acquisition in TN seems to be therefore secured more through a process of consent than coercion’ (Vijayabaskar 2010:42). Thus, it appears like land alienation and not land grabbing, where the farmers who are cultivating the land voluntarily transfer the title of the land (sell) to these private dealers/individuals.

The conversion of agricultural land for non-agricultural task is not a straightforward task, at least on paper. There are policies that attempt to prevent the conversion of land from agricultural to non-agricultural use. India is a federation of various states and there are certain subjects on which the central government has control and certain subjects on which the state government has authority and certain others that are under concurrent list on which both the central and the provincial government can have policymaking powers (GoI 2011). Land is a state subject in India and the planning and all other activities related to land like maintenance of land records, land management and alienation is under the State Government (GoI 2013c). However, the Central Government has come out with policies and guidelines like National Farmer Policy and National Land Utilization Policy that aim at preventing and/or controlling the conversion of agricultural land (GoI 2013a). The Jawaharlal Nehru Urban Renewal Mission (JNNURM), aims at effective urbanization with proper planning gives a general framework to convert agricultural land for non-agricultural use (JNNURM 2011) which can be adopted for the conversion of agricultural land. In TN, the Industrial policy, TN Town and Country Planning Act, 1971 (TNTCPA) with recent amendments (Vijayabaskar 2010:40) has defined clauses to minimize the conversion of agricultural land.

In spite of all these laws and procedures, agriculture land is converted to non-agriculture use throughout TN and in particular in the rural-urban fringe of Chennai city. The land-use conversion happens due to interaction of various stakeholders like the farmers, real-estate firms, land brokers and government institutions. The involvement of institutions like locally elected president, district administration and regulatory bodies like CMDA or the Directorate of Town and Country planning (DTCP) makes it a complex process. It can be also be indicated that, in this whole process, informal dynamics ranging from bribes to influencing policies for benefit of a particular group play a significant role.
This has not only led to ‘artificial reality boom’ but also shrink in the total cultivated area (Sivan 2011). It appears that due to these changes in the land-use pattern, has resulted in changes in the occupation and increased consumerism altering the socioeconomic conditions of the village as indicated by Narain (2009:506). As Gregory (2014) points out the change in land-use can be threatening to the food security of the country. The figure summarizes the problem of land-use conversion in peri-urban Chennai.

**Figure 1: Problem statement - Land-Use Conversion by Consent or Coercion**

- **Presence of Global and National industries**
- **Population growth**

**Urbanization**

**Expansion of the city area by engulfing nearby villages**

**Changes in Land-use in CMA region and the periphery villages**

**Act of coercion**
- State acquiring the agricultural land applying the land acquisition act and use it for ‘public purpose’ like infrastructure eg. roads or industrialization eg. SEZs
- Issues of displacement, compensation, resettlement and rehabilitation

**Act of consent**
- Farmers selling the agricultural land by themselves to the private players particularly real estate firms for layout development as residential plots
- Land as ‘store of value’ – leading to ‘speculative urbanism’

**Changes in the socio-economic aspects on the livelihood of people dependent on land**

**Food security problem in the long term**

Source: Own Construction
1.2 Objective of this Paper

Although, both means of land-use conversion will ultimately have more or less similar ends like affecting the socio-economic aspects of those dependent on land and threatening the food security of the country in the long run, the process by which these conversions happen tends to be an important phenomenon. This paper attempts to check the process of land conversion, with respect to, the aspect of the farmers selling their agricultural land to the real estate firms, whereby creating a speculative land market in the villages bordering CMA region. This conversion happens amidst the existing legislation and policies that prescribe stringent checks to reduce the conversion of agricultural land to non-agriculture use, particularly housing plots.

1.3 Primary and Sub-Research Questions

- How does the conversion of agricultural land to non-agricultural use occur in the peri-urban region of Chennai?
  - Who are the Stakeholders involved and what are their interests?
  - Have the objectives of the existing land-use policies met?
  - How do the weaker and more powerful stakeholders influence the policy process?

1.4 Methodology

The study is based on mix of primary and secondary data sources.

As the research question involved understanding the policies and the stakeholders, I attempted to use various documents ranging from Indian national and state policies, books, research journals, newspaper articles in English and Tamil. While Government webpages were the chief sources for getting these policies, the ISS library and online resources helped in gaining access to print and electronic documents. The documents were ‘examined and interpreted in order to elicit meaning, gain understanding, and develop empirical knowledge’ (Bowen 2009:27).

The desk study was complemented with the field study in a peri-urban hamlet of Chennai city. Semi-structured interview method was used to generate knowledge related to land-use conversion. Fourteen people in different groups like cultivating farmers, village representatives were interviewed. Details of the people interviewed is discussed in the chapter 4. The interviews were approached with the ‘miner’ mind-set, which is the knowledge is present there and it is the role of the interviewer to extract it. Here data collection and analysis were considered to be two
separate actions. It is a positivist approach, searching for ‘pre-existing truth’ (Kvale and Brinkmann 2009:48).

1.5 Structure of the paper

The paper is structured into six chapters. The first chapter discusses the background of land-use conversion, defines the problem and deduces the research question. In addition, it briefly explains the methodology that is used for collecting the primary and secondary data. The second chapter introduces the conceptual framework, which is used for analysing the data. The third chapter gives the context in detail about Chennai city, its peri-urban regions and land-use in these regions. Further, the chapter discusses national and state level policies related to land-use conversion. The fourth chapter introduces the case of the Kondancheri village, which is selected to understand the process of land-use conversion. The fifth chapter attempts to answer the research questions with the aid of conceptual framework developed. The paper concludes by suggesting possible solutions to the land-use conversion.
Chapter 2: Conceptual Framework

Dissecting the sub-title of this paper one gets the concepts of land governance and peri-urban area. This chapter will attempt to understand these concepts independently and then integrate them to get a wholesome perspective of ‘land governance in the peri-urban areas’.

2.1 Land Governance

Geographically, land is the surface of the earth along with the resources included in it like water, forests, minerals, gas and oil. ‘Land, therefore, is taken to include the physical land as well as related natural resource’ (Palmer et al. 2009:7). Economically, land along with its qualities like size, topography, surface and sub-surface water levels and natural parameters like precipitation and soil quality constitute a factor of production along with labour and capital (Found 1974:12). ‘The fulcrum of rural life’ as Habibullah (2003:15) puts it, brings out the sociological importance of the land as it is interlinked with the livelihood and identity of people in terms of culture and history. With the King levying taxes on the cultivated land (Chandrasekaran 2005:2) in the ancient times, to the present day, where the Government plays a role in the land policies and land reforms brings out the political dimension of the land. This makes one to understand that land is an important subject perceived by the Governments across the States.

The concept of governance takes no single definition. However, there are similarities in the various definitions of governance. ‘Governance is broader than the Government’ (Palmer et al. 2009:7) implies the existence and participation of private sector and civil society in the decision-making process and the same is acknowledged by Heywood (2007:6) and FAO (2007:5). Hyden and others (2003:5) define governance as ‘formation and stewardship of the rules that regulate the public realm—the space where state as well as economic and societal actors interact to make decisions’. This is line with ‘Governance emphasizes process and institutions’ (Palmer et al. 2009:9). The institutions and the rules therein can be either formal like laws, policies or informal like the rules set by informal groups like social networks or elderly village councils etc (ibid:8)

Although, Land and Governance are well-known terms, their combination as ‘Land Governance’ is relatively new. Land Governance deals with both the ‘legal and political framework’ and ‘traditional practices’ concerning the land management issues. Thus, the following definition by FAO (ibid:9) is adopted in this paper

‘Land governance concerns the rules, processes and structures through which decisions are made about access to land and its use, the manner in which the decisions are implemented and enforced, the way that competing interests in land are managed’
The issue of Land Governance has become the matter of interest among the international players like the World Bank, FAO, G20 countries and INGOs like Oxfam. Further, that the private players investing in land, has given rise to ‘multidimensionality of land’ making land governance an important aspect in the current situation. Thus, it is the ‘public’, ‘private’ and/or ‘hybrid’ bodies might have the role to play in governing the land (Margulis 2014).

Borras and Franco (2010:3) argue that most of the land governance principles put forth by the ‘mainstream development’ institutions focuses on ‘technical and administrative’ aspects from the economic perspective and these institutions tend to assume that good land policies will automatically lead to ‘democratization’. They add that informal dynamics can influence the land policies making these policies ineffective and consider this as a ‘gap’ in the land governance discourse. ‘Formal institutions can help establish rights that challenge informal power relations, while those informal structures can also undermine formal structures.’ (Fox in ibid:6)

Thus, in order to understand the land policies and their implementation, it becomes necessary to analyse both the formal mechanisms and informal dynamics associated with the land governance. The donor discourse on land governance by World Bank and FAO might be helpful in comprehending the formal land governance aspects. Investigating the concepts of corruption, power influence, land price speculation, legal pluralism within in the perspective of land might help in assessing the informal dynamics in the land governance.

2.1.1 Formal Dynamics - Land Governance Discourse by FAO and World Bank

When the demand for land is on the rise due to various reasons like commercialization, residential requirement because of urbanization, industrial uses or for public purpose, there arises a strong competition among the stake holders (Palmer et al. 2009:10). Hence, in order to regularize the competition and ensure fair play, institutionalizing the land administration by means of rules and policies is required. The FAO and World Bank have introduced land governance frameworks titled ‘Good Governance in Land Tenure and Administration’ (FAO 2007) and ‘The Land Governance and Assessment Framework’ (Deininger et al. 2012) respectively. Although, the land policies are country and issue specific (Palmer et al. 2009), these frameworks are designed to provide technical guidance and support the countries moving ahead towards improved governance in land services (The World Bank 2003). One could establish many points of convergence between these two frameworks despite their different sources of origin.

The FAO framework (2007:9) adopts 12 good governance principles like effective, efficient and competent land administrative system; responsive to the needs of the citizens; legitimate; transparent; accountable; equitable; participatory and applies them to specific areas of land administration like land-use management and registration. On the other hand, the World Bank framework (2012:28) has come out with five major themes like Legal and Institutional
Framework, Land-use Planning and Management, Management of Public Land among others. The five themes are assessed using 21 Land Governance Indicators (LGIs). The good governance principles mentioned in the FAO framework are interwoven in the 21 LGIs of the World Bank framework. For example, effective and competent land administrative system of FAO framework is established in the LGI8 of World Bank- ‘land-use plans are justified and effectively implemented’. Transparency principle is accounted in the indicators LGI7 – ‘transparency of land-use restrictions’, LGI10 – ‘transparency of valuations’ and LGI14 – ‘Transparency and fairness of expropriation procedures’.

Although, both these frameworks bring out various aspects pertaining to land governance, keeping in line with the main objective of this paper, understanding the changes in the land-use patterns in the peri-urban areas of Chennai, the aspect of land-use planning, put forth by World Bank and FAO might be relevant to this work. Thus for the purpose of this paper, changes in land-use pattern and dealing with it will be considered as land governance.

2.1.1 Land-use planning in FAO and World Bank Framework

The FAO framework (2007) argues that the policies and procedures pertaining to land-use are essential legal factors and these policies have a direct impact on the land’s value in the monetary terms, especially in the peri-urban areas where the change in the land-use from agriculture to urban commercial and residential is on the rise. It identifies the following practices for good governance in the land-use planning.

Land conversion from rural to urban use is associated with huge returns and thus subjected to problems when there is lack of transparency. This framework notes the involvement of land administrators and users in land-use planning. It argues preparing proper land-use plans and their orderly implementation within the boundaries of the appropriate laws, might reduce the conflicts that result in the conversion of rural land. It advocates inclusive and complete participation of all the stakeholders in the planning process and separate agencies of the government might be involved in planning and implementation of land-use policies. It is essential to evaluate the technical and political feasibilities of land-use conversion in a transparent manner within the existing legal framework when a particular individual decides to change the usage of land on which he might hold the legal title. The framework proposes a suitable appeal mechanism to resolve the disputes among the stakeholders. The framework proposes performance indicators including the time taken for the approvals and implementation to monitor the agencies involved in land-use planning process.

The World Bank (2012) has identified five LGIs out of 21 under the theme Land-use Planning, Management and Taxation. The LGI7, ‘Transparency of land-use restrictions’ mentions that while planning land-use, the availability of land to meet the future demand, resources required to implement the land-use plan in a cost effective way should be taken into consideration. Further, the land-use plan should be implementable and designed based on participation of the stakeholders to ensure transparency. The LGI8, ‘Efficiency in land-use planning process’
acknowledges that economic growth might result in changes in the land-use especially in the peri-urban areas and will eventually lead to corruption. Those having access to information about the projects in pipeline in a particular region might invest speculatively in the land, thus increasing the value of land manifolds. In order to prevent this and to ensure such changes in the land-use benefits the society at large than few select individuals, LGI8 suggests that the process should be transparent and the authorities should be made accountable for their decisions. The indicator further suggests that good governance might play a role in reducing the conflicts that arise because many a times it is the same institution, which frames policies, implements them and hear appeals. The LGI9, ‘Speed and predictability of applications for restricted land-uses’ establishes the importance of faster and predictable decisions pertaining to land-use as the delay in making decisions might hinder the economic progress. The LGI10 and 11 ‘Transparency in land evaluation and tax collection efficiency’ advocates decentralization of land valuation and tax collection to the local governments and the revenues thus generated should be part of local government. In addition, the local government’s capacity in land valuation and in subsequent evaluations needs to be enhanced. This when implemented effectively and transparently might prevent the idle land holding for speculative purposes and might pave way for corruption. The below figure shows the similarities in land-use planning as advocated by FAO and World Bank.
Figure 2: Similarities in Land-use planning in World Bank and FAO Framework

- Involvement of Land Administrators and Users
- Transparency
- Transparency of land-use restrictions
- Efficiency in land-use planning process
- Speed and predictability of applications for restricted land-uses
- Transparency in land evaluation
- Performance Indicators
- Appeal Mechanism
- Tax collection efficiency
- Technical and Political feasibilities within the legal framework
- Involvement of different Government agencies
- Inclusive and complete participation of all the Stakeholders
- Proper Land-use plans and their orderly implementation

Source: Own Construction
2.1.2 Informalities in land governance

The international norms on land-use conveys how the land-use policies needs to be framed and implemented. However, the reality might be different as is brought out in many land governance studies across the world. For example, Wit (2013a) on his study in Vietnam, points out various informalities prevalent in land-use planning and implementation. The same may be extrapolated to most of the developing countries.

2.1.2.1 Power Dimensions

He points out ‘power dimensions’ as important factor that determines land-use change. Although, the formal discourse mandates participatory approach in the planning process, but it is the powerful actors who influence the policy formation and implementation. Palmer (2009:10) calls it as ‘State capture’, where the powerful ‘direct public policy for their own benefit’. Johnson and Chakravarty (2013) in their study on land-use in Kolkata have noted the ‘informal power relations’ influencing land-use policies by means of unholy nexus between government institutions and ‘local shadow networks’ which are the local politicians and land dealers.

2.1.2.2 Legal Pluralism

In developing countries as in Vietnam, land transactions happen outside the context of State and this makes one to wonder, if at all, the formal dynamics regulate the informal mechanisms, or do they coexist. Wit (2013a:9) notes this as ‘legal pluralism’ due to multiple institutions both formal and informal, have a say on the land-use policies. Thus, he raises the question ‘Should there be more attention for the difference between ‘theoretical land-use planning’ and the actual, practical, real, and ‘likely to be implemented’ land-use planning?’ (ibid:25).

2.1.2.3 Corruption and Clientelism

When the land governance as well as formal governance institutions are weaker, it paves way to corruption because of the limited supply and greater demand for land (The World Bank 2003) and massive profits that can be made. TI (2009:9) points out that the corruption in the land services is next only to the police and the courts. In India, annually USD 700 million is spent on bribes on land related services (TI 2011:3). Kaldor and Luckham (in Shiva et al. 2011:66) indicate the role of private players and international firms in the land-use conversion has increased corruption and clientelism the major factors of informal dynamics in land governance.

2.1.2.4 Taking Advantage of Insider Information

Vasudevan (2013:54-58) in her case on land-use conversion in Noida, notes that access to insider information plays an important role in land-use conversion. She points out that the top bureaucrats pass on important details such as the arrival of new airport in a particular region to the powerful real estate firms. The firms then in-turn start acquiring land in that region by offering ‘higher premium’. These firms collaborate with the key persons in the village, ‘block of builder-authority-rich farmer’ as she refers the partnership and use these strongmen to influence
the rest of the farmers to sell the land. The rent offered to the strongmen is skyrocket prices for his land, which the other villagers are not aware. The land developers register the land purchased in ‘benami’ names i.e in the name of the representative of the real purchaser and once the project starts, the land is sold for huge profit margins.

2.1.2.5 Using Force

Fazal (2013:67) in his study on Aligarh, notes ‘property dealers and land developers pressurize small land owners to dispose their land as these people need big areas for developing colonies’. It is because of poor economic conditions and inability to resist the pressure from powerful the farmers decide to part with their lands even if they are not genuinely interested.

The above summarizes the World Bank’s statement (2003:44) ‘issues of governance, conflict resolution, and corruption …are among the key reasons why land is coming to the forefront of the discussion in many countries’.

2.2 The Concept of Peri-Urban

Wehrwein (1942:217) defined rural-urban fringe as ‘the area of transition between well recognized urban land-uses and the area devoted to agriculture’. Fazal (2013:4) identifies words like ‘rural fringe’, ‘city’s country side’, ‘desakota region’, ‘rural hinterland of the city’ that are used interchangeably with peri-urban by various authors. Kurtz and Eicher (1958) distinguished fringe areas of the city from suburban areas. Fazal (2013) describes fringe areas as the places where there is no differentiation between rural and urban areas and he calls it ‘rural-urban continuum’. It appears to be widely accepted that the fringe areas are formed because of expansion of the cities (Garreau and Hall in ibid). Shindhe in Fazal (2013:8) calls Peri-Urban Interface (PUI) as ‘transitional zone around the city’, and as ‘link between urban and rural areas’.

Narain and Nishal (2007:261) understand peri-urban as ‘place’, ‘concept’ or ‘process’. By ‘place’ it means the area surrounding the city. McGee (in Fazal 2013:18) puts forward in some Asian cities peri-urban extends up to a distance of 30 Km from the city’s core area. However, Narain and others (2013:3) in their study on Indian cities conclude that distance cannot be a defining factor to define peri-urban and they characterize peri-urban region as the one in which, there is visible land-use change from agriculture to real estate and SEZs. As ‘process’ peri-urban can mean the exchange of goods and services from urban and rural areas and as ‘concept’ it is ‘interface between three systems, namely, the agricultural system, the urban system, and the natural resource system’ (Allen in ibid:6). This paper will understand peri-urban as ‘concept’ to understand the land-use change, as it is the result of interaction of various systems and institutions. Further, peri-urban region is a dynamic one and it constantly undergoes change with reference to usage of land and the boundaries of the region (ibid:10).

Pryor (in Kupková 2007:4) uses the ‘process-response model’ diagram to distinguish the urban fringe from the rural fringe in the Peri-urban region based on the land-use pattern. As the region gets closer to the city, the urban land-use tends to be on a higher side and vice versa. Bentinck
(in Fazal 2013) supports this aspect by considering peri-urban or rural-urban region as he calls it as the one that extends from the centre of the city with no rural land-use to the region where most of the workers are involved in non-agricultural activities.

**Figure 3: Peri-Urban Interface**

Oliveau (2005:11) distinguishes peri-urban areas from suburban region. The latter is the continuation of the city without any physical separation, whereas in case of peri-urban region, it is separated from the city by means of agricultural land and open spaces.

As Brook and others (in Fazal 2013:23) points out ‘there is no single satisfactory definition of peri-urban interface and moreover different definitions will probably apply in different circumstances’. In connection with the main objective of this paper, which is studying the changes in land-use patterns in peri-urban areas of Chennai, the below definition by Fazal (2013:4) will be used in this work.
Now that we have an idea of common peri-urban dynamics, it becomes necessary to understand the relationship between land-use governance and peri-urban area. In this study, the peri-urban area can be considered as policy arena where the different stakeholders with diverse stakes and powers interact to influence the land-use conversion.

### 2.3 Integrating Land Governance and Peri-Urban

As mentioned, the managing land-use pattern is predominantly considered as land governance in this paper. Post the discussion on academic literature on land governance and peri-urban individually, it becomes essential to integrate these concepts as a single unit of analysis in this work. With the limited supply and increasing demand for land, there seems to be a competition for land globally. Haberl and others (2014:37) define land-use competition as ‘contest between different purposes, or functions, for which a given piece of land, or the resources flowing to and from such land, could be used’. They attribute competition for land is the foremost reason for the land-use change. Three categories of land-use competition defined by Haberl (ibid:42) are

- ‘Production vs production’ – Food production vs bio-fuel production
- ‘Production vs conservation’ – Food production vs deforestation
- ‘Built-up environment vs production/conservation’ – urbanization vs food production and conservation

This paper will focus on the third category, ‘built-up environment vs production’. The projected global population is 9.3 billion by 2050 and about 6.3 billion of which might live in cities (Haberl et al. 2014:39). The ‘Urban land area is expected to triple in the time period from 2000 to 2030’ (Seto in Haberl et al. 2014:39). This will have direct effect on the land-use in the peri-urban areas of cities ‘pushing agriculture elsewhere’ (ibid).

The below table, customized from Haberl (2014:45 and 51), captures the essence of the conversion of land from agriculture to urban use that arises due to competition between food production and urbanization of land. It is a global phenomenon, but has an impact in the particular region where land is converted from agriculture to urban use. The impact can be either direct or indirect and categorised as environmental and social impact. The decrease in agricultural land and the land price speculation in the peri-urban areas are the issues of concern of this paper.
Table 1: Competition for land - Urbanization vs Food Production

<table>
<thead>
<tr>
<th>Types of land-use competition</th>
<th>Shifts in land-use/system characteristics</th>
<th>Geographical location</th>
<th>Examples of competition</th>
<th>Direct Impact</th>
<th>Indirect Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built-up environment vs. production</td>
<td>Food or feed ↓ Urban areas</td>
<td>Global in reach, but localized impact</td>
<td>Cities, urban development, and increasing “urbanity” globally often occurs in prime agricultural locations</td>
<td>Increased impervious surfaces and urban run-off; reduced agricultural run-off; potential land sparing if rural residents abandon land when moving to city; less reversibility in land-use; loss of ecosystem services</td>
<td>Loss of rural lifestyle and culture; increased incomes for rural landowners selling land; speculative investment; greater opportunities for (peri)urban agriculture</td>
</tr>
</tbody>
</table>

Source: Haberl (2014:45 and 51)

Shah and Kumar (2008:382) notes the following on land-use in peri-urban area: It is more fertile’ than the land located away from city, ‘diversion of urban fringe’ is the main reason for land-use change and ‘voluntary’ selling of the land by the owners than forced acquisition. Manonmani et al. (2011:5) notes that the agricultural land situated in the peri-urban areas are in high demand for residential use. The sudden rise in the land value has resulted in change in the land-use and this change is not harmonious (Fazal 2013). The suburban area of metropolitan cities, particularly in developing countries are ‘forced to undergo process of transformation’, the same is attributed to development (Kirschenbaum in Ramesh et al. 2011:1)

‘Land-use conversion, that is, the farmlands located at the suburbs get into a cycle of development, namely, layouts and vacant land for future development. Layouts inherit the characteristics of various land-uses and as such, land devoted for commercial purposes within the residential area, public spaces namely park and public sanitation places. Similarly, plots devoted to residential development take up new forms of development such as apartments, duplex houses and row type of houses. It explains the nature of modification in land-uses of an area and adds richness to the complex urbanisation process’ (Ramesh et al. 2011:1)
The intrusion of fertile agricultural land and changes in the socio-economic life style of the people in the peri-urban areas are significant factors of the city expansion (Fazal 2013:10). The land-use transformation is influenced by variety of actors and hence becomes the issue of governance. ‘Land-use is no longer under one single territorial institution—if it ever was—but rather the subject of multiple, flow anchored governance arrangements’ (Gentry et al. 2014:240). These actors are not only formal institutions like elected governments, international organisations but variety of other stakeholders like private institutions and civil society organisations, farmers, landless labourers deepening on the land. ‘Revalorization’ of land both in economic and social terms drives the interests of many of these stakeholders in land-use transformation. Thus, it is the ‘multi-stakeholder’ process, which contributes to ‘both public and private rules, formal rules (such as binding intentional law), and soft, voluntary arrangements (such as certification)’ (ibid:247).

The concept of ‘multi-stake holder’ governance (de Wit 2013a:9), ‘Government is not alone any longer in governing; there are many other stakeholders in formal and informal configurations who co-govern, and who have smaller or larger influence on government and government outcomes’ will have direct relevance to this paper. The conversion of agricultural land involves the interests of many stakeholders like individual farmers, private sector like the real estate firms, government policies that attempt to ensure the prevention of agricultural land conversion. The Land development systems framework of Chapin and Kaiser (in Rameli 2011:4) identifies the various stakeholders their perceived roles in the process of land conversion. However, it is important to note that this framework misses the most important stakeholder – the owner of the land or the farmer.
The decisions that influence land-use change can happen either formally eg. transparent negotiations or informally eg. lobbying by powerful actors (Gentry et al. 2014:244). The conflicts due to changes in land-use arise from vested interests of private developers, speculators etc., The conversion of agricultural land to housing sites and other commercial uses happens both formally with the concurrence of the Government and the land owners and also informally by squatting (Fazal 2013:17). Aarbindoo (2006:54) in her study on Chennai notes that the peri-urban areas have become ‘pawns’ due to vested interests of policy makers and the real estate firms. Shah and Kumar (2008:365) note that though there are strict policies preventing conversion of agricultural land to other uses, they are hardly translated into reality. Urbanization rises the land prices in the peri-urban areas (Narain et al. 2013:10) causing voluntary selling of the land by the farmers (Shah and Kumar 2008:388) and thus paving way to land speculation (Narain et al. 2013:11). This leads us to consider actual practices of land governance – whether and how the land plans and laws are actually implemented as per the stated objectives. The problem condenses to policy implementation giving way for another concept that needs to be understood.
2.4 Policy Implementation

Of the four conventional stages of policy cycle, mentioned by Jann and Wegrich (2007:43) namely ‘agenda setting’, ‘policy formulation and decision making’, ‘implementation’ and ‘evaluation’, policy implementation might be of importance in this paper, as stated above. O’Toole (in ibid:51) understands implementation as difference that arises between the intended and actual impact of the policy. Mosse(2004:640) call it as ‘gap between theory and practice’. Thus, implementation need not be and mostly is not a simple and straightforward process (Turner and Hulme 1997:75). Various powerful actors having interests in the outcome of particular policy might attempt to influence the implementation. These actors can range from international institutions, private sector organisations, economic elites, national and local politicians and civil society organisations. They might end up having ‘political relationships’ with the government departments and bureaucrats responsible for implementing the policy. It can be inferred that politics and power play an important role in policy implementation (ibid:77-81). Dhal (1957) notes that power is not concentrated in particular group, it is dispersed among different elite groups, and these groups tend to influence policies based on their interests. Wit (2013b) describes the implementation as an ‘arena’ where the interaction of strong and weak actors happens by negotiating and/or manipulating. As Mosse (2004:650-653) argues, the interests of these stakeholders need not be a legitimate always. Some of these actors might have own self-interests in the policy outcomes. Due to this, they might restore to illegitimate means to influence the policy implementers through informal mechanisms like corruption, nepotism.

From the above literature presented, one can deduce that policy implementation is not a ‘linear process’ but rather happens with the ‘interaction’ of various stakeholders particularly the ‘policy elites’ and ‘managers’ as suggested by Grindle and Thomas (1991). This interaction might influence the policy outcome from the intended to unexpected ones (ibid).

‘Good policy is unimplementable…… or, rather than unimplementable, we should say that policy goals come into contradiction with other institutional or system goals such that policy models are poor guides to understanding the practices, events and effects of development actors, which are shaped by the relationships and interests and cultures of specific organizational settings’ (Mosse 2004:663)

Just like governance, the policy process is also determined by interaction of weaker and stronger stakeholders who position themselves around the policy issue.

2.5 Conceptual Framework

The concepts introduced in this chapter are standalone ones. The framework presented below shows the interrelationship between these concepts. This paper will use this framework to understand the land-use changes in the peri-urban areas of Chennai city.
Figure 5: Conceptual Framework

Land Governance

Peri-Urban Area

Land-use planning and management – An aspect of land governance in Peri-urban areas

Interest of various Stakeholders

Formal Dynamics

- Transparency
- Speed and Predictability
- Efficiency
- Appeal Mechanism
- Participation
- Land-use Plans

Informal Mechanisms

Policy Arena – negotiation/manipulation of strong and weak actors

Power Dimensions

- Legal Pluralism
- Corruption and Clientelism
- Making use of insider information
- Using Force

Gaps in policy implementation

Conversion of agricultural land for non-agricultural use in the peri-urban region

Source: Own Construction
Chapter 3: The Context - Chennai, it’s Peri-Urban Region and Land-use Policies

3.1 Chennai City and Early Expansion
The history of India’s fourth largest metropolitan city and the capital of TN, Chennai, dates back to 1640 with the establishment of Fort St. George by erstwhile East India Company (CMDA 2008a). Madras, as it was called then, was the capital of British India until 1774 and the Madras Corporation was the first governing body setup by British outside Europe in 1687 (Muthiah in Jothilakshmy 2011:112). Few villages like Mylapore and Santhome and fishing hamlets like Chennai pattanam were brought together as Madras city. Jyothilakshmy (2011) traces the origin of the city from 16\textsuperscript{th} century AD. She points out that Mylapore port was known to Roman and Greek traders and the human settlements had existed around the ancient Hindu temples. She points out that most of the important road of present day like Poonamalle high road, Santhome high road were created in 17\textsuperscript{th} century to connect these settlements. It was in 1798, 16 hamlets in the radius of 69 km surrounding the Fort St. George was together called as Madras city. The demarcation of eight divisions with commissioners, establishment of central station, construction of infrastructure like parks, radial and ring roads, public buildings in 19\textsuperscript{th} century made the city paved way for city’s development. Further, the growth in number of business houses in the early 20\textsuperscript{th} century made Madras an important commercial and administrative centre in South India. Post-independence, Madras continued to be important cities of India and as capital of Madras Presidency. With the reorganisation of States based on language, Madras became capital of present day TN. The city was rechristened as Chennai in 1996 (Arabindoo 2006:26).

3.1.1 Present Day Chennai and Chennai Metropolitan Area
The Chennai Metropolitan Area (CMA) at present is 1189 sq.km spread across three districts Chennai and parts of neighbouring Thiruvallur and Kanchipuram districts. The entire Chennai district, which is called Corporation of Chennai measuring 176 sq.km and 637 sq.km in Thiruvallur district and 376 sq.km in Kanchipuram district, is part of the CMA (CMDA 2008a:8).

3.1.2 Governance structure
The CMA is a heterogeneous mix of various governance structures namely Chennai Corporation, 16 municipalities, 20 town panchayats and 214 villages in 10 panchayat\textsuperscript{2} unions in the Thiruvallur and Kanchipuram districts. The CMDA is the umbrella body that takes care of planning and co-ordination in the CMA region. The other governance structures are involved in

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\textsuperscript{2} Panchayat roughly translates to local council
service provisioning and civic management in the specific region over which they have jurisdiction (CMDA 2008b:iv). The State government is pursuing a plan to setup ‘Chennai Mega Region’ by expanding the CMA limits to 8898 sq.km (GoTN 2013a:59) by including the entire Thiruvallur and Kanchipuram districts.

3.1.3 Demographics
With a population of less than half a million during 1901 (TCPO 2006:17) to nearly 5 million as per the latest census in 2011, Chennai city’s population has grown manifolds. The population of CMA is 9 million and that of Thiruvallur and Kanchipuram districts is 3.7 and 4 million approximately according to the Census data (2011a). Chennai, Thiruvallur and Kanchipuram have figured in the top four districts of the State based on population. Although, the decadal growth rate of Chennai district is nearly 50% points lesser than the State average (15.6%), the Thiruvallur and Kanchipuram districts have figured as top two districts with 35.2% and 38.7% increase in population over 2001 census. The corresponding figures of these districts in the 2001 census stood at 23.06% and 19.15% over the 1991 data. In terms of population density, Chennai district is ranked second in the country, next only to, Northeast district in Delhi with 26,903 persons/sq.km (GoTN 2011b). The population of CMA is expected to be 12 million by 2025. The CMA occupies less than 1% area of TN, but it is home for more than 11% of State’s population (Sekar and Kanchanamala 2011:34).

TN is the most urbanized state in India, with 48.5% of the population living in urban areas. The Chennai district is completely urbanized (100%). Here again, Thiruvallur and Kanchipuram districts are highly urbanized with 65.1% and 63.5% of population living in the urban areas. The work participation rate, which is the workers as the percentage of population in urban areas is again high in TN at 40.2% (GoTN 2013b:253).

3.1.4 City Planning by CMDA prior to 1991
The ‘General Plan 1957’ and ‘Madras Interim Plan 1967’ by Corporation of Madras addressed the problems of city, which was 129 sq.km in total then. These plans recommended Comprehensive Plan for organised city development with detailed financial requirements (Jothilakshmy 2011:128). The form of municipal government, Corporation of Madras, established by colonial rule could not face the challenges of like population growth and unregulated Chennai’s expansion. The Chennai Metropolitan Development Authority (CMDA) or Madras Metropolitan Development Authority (MMDA), as it was called then, was institutionalised by dissolving the erstwhile Corporation of Madras due to issues of corruption. The CMDA functions as a planning authority under the guidance of State Government. The CMDA was entrusted to implement the first detailed plan for Chennai, Madras Metropolitan Plan 1971-1991. The corporation limits was extended in 1978 by CMDA (Arabindoo 2006:27). It is during this period the city saw rapid industrialization particularly in the North and Western directions of the city with industries like Ennore refineries, Ashok Leyland, Madras fertilizers coming up in Manali and Ennore in North and T.V.S group, TI cycles coming up in Ambattur and Avadi in the West. The centre of the city with areas like Nungambakkam becoming the
commercial and official hub of the city. Residential areas were concentrated in southwest and North-south direction in the areas like Tambaram, Mylapore etc. The city has taken the shape of a semi-circle with Bay of Bengal to the East (Jothilakshmy 2011:121-122).

3.1.5 Effect of Globalization and Planning post 1991

Anticipating the further expansion of city due the liberalization of Indian economy in 1991, CMDA came out with Master plan for Madras Metropolitan area 2011 in 1995 without implementing the strategies proposed in earlier plan (Arabindoo 2006:27). This plan classified the city into various zones like Industrial zone, residential zone. The TN Housing Board catered to residential needs of the city’s population by developing plots and flats in the neighbourhood. The land along the Ponnamalle High road until Poonamalle town in the west and that in the OMR until Sholinganallur in the South are allotted for Industrial use. The southern corridor has become hub of IT and IT enabled service industries; whereas the western corridor has become the manufacturing hub with international automobile firms like Hyundai and electronic industries like Nokia (Jothilakshmy 2011:123-124). In 2008, The CMDA has brought out the second master plan for CMA in 2026. This plan classifies the CMA in ten land-use zones like primary residential, mixed residential, commercial, industrial, urbanisable etc. This plan encourages the expansion of the city outside the present CMA limits to neighbouring Thiruvallur and Kanchipuram districts by strengthening towns like Gummipundi in North, Thiruvallur and Srirampur in West, Maraimalai Nagar in South (ibid:131-133). The CMDA partners with private organisations and multinational firms to implement planning and development activities under public private partnership mode (Arabindoo 2006:28).
3.2 Peri-Urbanization of Chennai

From the demographic statistics of Chennai, Thiruvallur and Kanchipuram districts, one can infer that the population in Chennai has a direct consequence on the urbanization of neighbouring districts. The housing demand for Chennai. The Second Master plan (CMDA 2008b:63) projects the housing demand in the CMA will be 12.3 million by 2026. However, about 70% of available land in the CMA limits is already under residential as of 2006 (CMDA 2008b:114). This means the city has to expand the limits as the effects of urbanization ‘spills over’ to the peri-urban regions (GoTN 2013b: 253). The Census (2011a:3) used the concept of ‘outgrowth’ to include areas that do not represent urban areas themselves, but are clubbed with nearby towns as their ‘continuous urban spread’. The growth of peri-urban regions generally happens along the transport corridors based on the availability of land for development at comparatively cheaper rates than the city centre (AU 2005:9).

Chennai is no exemption to this, the city has expanded to about 25 km in South and Western direction between 1963 and 1980 (ibid:24). Arabindo (2006:31) considers this as ‘powerful growth corridor’. The city shares its boundary with Andhra Pradesh in north; hence, there is not much scope for expanding in that direction (ibid). Further, northern side is not considered suitable for residential use, as the industries there are perceived to be polluting and hazardous. Sekar and Kanchanamala (2011:40) have traced the expansion of city since 1971 and they have noted the city has engulfed the villages that are nearer to it in 1971 and with passage of time, more and more villages that are farther away from the city have also become part of the city, particularly along the main transport corridors.

The OMR or the IT express highway in the southern direction is the hub of plethora of IT firms. This has led to growth in the migrant population along the southern peripheries of the city since 2000 (Narain et al. 2014:9). The development in the region has already crossed the CMA limits about 15 km further south, to Siruseri in the Kanchipuram district, home for SEZs with massive IT parks. This is included as peri-urban region of the city. The ECR running parallel to the OMR is also the region of massive growth as this corridor connects the southern TN with the capital city. Arabindo (2006) uses the case studies of Neelangarai and Valmiki nagar in this corridor to understand the urbanization in ECR by displacing local residents and turning the area into beach villas and apartments making it an upper class residential area. The fisher folk, who are the original occupants, are moved to slums near the seashore and she attributes the role of powerful real estate firms and the local panchayats in making the ECR what it is today. ‘The local people are submerged in the development…in the process of becoming urban without even moving’ (Seabrook in ibid:51).

The Western corridor, which is the extension of Poonamalle high road as National Highway (NH) 4 to Bangalore, is another important transport corridor. Though the present CMA limits are until Chemberumbakkam lake, the city has expanded till Sriperumpudur in Kanchipuram district about 40 km from Chennai city. Sriperumpudur and its adjacent areas is the hub of manufacturing SEZ. The SEZ are vast hectares of land ranging between 10 to 3000 hectares, made available to the national and multinational firms by the State Government and offers tax
concessions to the firms established in the SEZ. The chief objective of these zones is export promotion. Many a times, the governments of various States compete to attract investments by offering extra concessions to the multinational firms like relaxing labor laws. Nokia factory in Sriperumpudur SEZ is one such example. This area is attracting investments with automobile and electronic firms topping the list with 59% and 27% as of 2011 by European, Japan, Korean and Chinese firms in addition to Indian companies. The population of Sriperumpudur increased by more than 50% in past one decade and this can be attributed to the rapid industrialization. It is logical that the media addresses this region as ‘India’s Schengen’ (Homm 2013:49-72). Although, it cannot be disputed that the Chennai city has grown in all directions, the emphasis is the south and west transport corridors (Arabindoo 2006:32), in which lot of rural areas are absorbed into the city limits and have become present day peri-urban regions of Chennai city.

3.2.1 Land-use in Peri-Urban Chennai

One of the important characteristic of Peri-urban region is the change in the land-use from agricultural to non-agricultural use. There will be mix of urban and rural land-use with competition for available land (Narain et al. 2014). Anna University (2005:26) identifies change in land-use, depletion of fertile agricultural land on a continuous scale, reduction in the agricultural production as certain indicators of peri-urban region. Of the three categories of land-use competition namely production vs production, production vs conservation, and production vs built-up environment put forth by Haberal et al. (2014), peri-urban region compete for using land either for cultivation or urbanisation.

In the CMA region as of 2006 (CMDA 2008b:114), more than 70% of the available land was put to residential use. Sekar and Kanchanamala (2011:52) note that the agricultural land in CMA region has drastically come down from 48.91% in 1975 to nearly 10% in 2006. The land-use pattern (GoTN. 2006) statistics of TN shows that Chennai district with 98.3% of total geographical area is used for non-agricultural use followed by Kanchipuram district with 33% and Thiruvallur district with 30%. The twelfth five-year plan of GoTN (2012:736) attributes urbanization as the chief cause for conversion of agricultural land to non-agricultural use in the land constraint State. The per capita availability of land in TN is 0.18 ha of which only 0.07 ha is sown area. Shah and Kumar (2008:370) have noted that most of the land transformed into industries and residential plots in India have come from fertile agricultural land than non-cultivable fallow lands. Raveendran et al.(2005:15) attributes certain indirect factors like relatively lesser income from agriculture compared to other occupations, non-supportive agricultural policies and lack of agricultural labour for changing land-use patterns in the State. They have projected the total land demand for both agricultural and non-agricultural use by 2020 will be more than the available land in the State, and recommend immediate policy changes to manage the land-use pattern in the State, as the supply is limited. The TN Vivasayigal Sangam, farmer’s union, notes ‘Fertile land areas were depleting in Kanchipuram and Tiruvallur districts; and ‘has urged the Government to take necessary steps to stop the conversion of cultivable land into construction sites’ (The Hindu 2006).
3.2.2 Forms of Land-use Conversion in Peri-Urban Chennai - Land Grabbing vs Land Alienation

The conversion of agricultural land in the peri-urban Chennai chiefly happens for reasons like infrastructure building, industrialization and residential or the real estate reasons (Homm 2013). The State acquires the land from the legal owners for ‘public purpose’ say constructing highways and for industries. The state used to apply the century old Land Acquisition act of 1894, which of late was replaced by the new Land Acquisition and Rehabilitation act of 2013. Land acquisition by State has been into controversies involving lack of fair compensation, displacement of people and their resettlement problems (Shiva et al. 2011). Various authors like Shiva (2011), Vasudevan (2013) have pointed out the huge protests across the country in order to prevent the land acquisition by the State and to ensure proper resettlement and rehabilitation of the people who have lost their land to the State. This aspect of land acquisition may be equated as ‘Land Grabbing’ by the State where the land is acquired without the consent/interest of the farmers.

On one hand, the State is forcefully acquiring land for industries and infrastructure leading to protests and troubled atmosphere, on the other, the farmers from the nearby villages are voluntarily selling their land to the private players. These firms are majorly real estate firms that are interested in creating plots and apartments in order to meet the demands of the nearby industrial zone. Shah and Kumar (2008:369) notes that this creates ‘land market’ in the peri-urban region, resulting in the conversion of fertile agricultural land. They also indicate that there is not exact data of how much land is being converted in this manner due to illegal transactions. The forms of land diversions along with the mediating agency and end users of land in peri-urban Chennai is summarized as below.

Table 2: Land Diversion and Mediating Agency

<table>
<thead>
<tr>
<th>Land Type</th>
<th>Purpose</th>
<th>End user of land</th>
<th>Mediating agency</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural land in peri-urban Chennai</td>
<td>Infrastructure like roads</td>
<td>Private or Public use</td>
<td>State – through acquisition</td>
<td>Land Grabbing</td>
</tr>
<tr>
<td>SEZs - Industrialization</td>
<td>Mainly Private use</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For Urban growth – Residential apartments and plots</td>
<td>Generally Private use</td>
<td></td>
<td>Mainly through purchase by land developers</td>
<td>Land Alienation</td>
</tr>
</tbody>
</table>

Source: customized based on Shah and Kumar (2008:405)

Understanding the form of diversion where the land is purchased by the real estate developers with the consent of farmers leading to ‘speculative urbanism’ as Goldman (2011) refers, is the main objective of this paper. Hence, this aspect will be discussed in detail. However, the land-use conversion due to real estate market does not happen on its own, but due to the influence of
emergence of industries in the peri-urban region, a brief note on SEZ in the peri-urban corridors might will help in understanding the emergence of real estate market.

### 3.2.3 The Growth of SEZs in Peri-Urban Chennai

In the peri-urban areas of the City, the State acquires land for industries, particularly SEZs. In case of SEZ, the State exhibits its monopoly in acquiring land and then transferring it to the private firms. SEZs are ‘delineated duty free enclave and shall be deemed to be foreign territory for the purposes of trade operations and duties and tariffs’ (Shiva et al. 2011:2). The private sector will develop the land and establish manufacturing units. These zones are mainly created for promoting exports and are generally exempted from tax regulation, labour laws and environmental laws of the State. Many villages in the peri-urban areas of the city are transformed as SEZs and the livelihood of the villagers of that area, which is chiefly dependent on agriculture is threatened (ibid).

TN has 33 SEZs constituting 21% of total SEZs in India. In addition, about 35 of them were principally approved SEZs yet to be operational as of 2012. Of these SEZs, 30 of them are in the peri-urban Chennai particularly along the western and southern corridors of the city. The ones in the western corridor like Sriperumpudur and Oragadam are predominantly manufacturing SEZs; the ones in Southern corridors like Siruseri, Tambaram are IT and ITeS based SEZs. The State Government advertises SEZs as ‘land of abundant opportunity’ to attract domestic and international investment. 95.5% of total exports value from TN in 2010 is from the SEZs situated in peri-urban Chennai (Homm 2013:56).

### 3.2.4 Real Estate Growth in Peri-Urban Chennai

The land conversion from agricultural to residential plots and apartments happens because of industrial development in particular region. The rise in population gives rise to the demand for housing the region that is industrialized. In case of Chennai, it is the southern and western corridor. Thangavel and Sachithanandan’s study (in Arabindoo 2006) on land subdivision substantiate this by stating that there is a marked increase in the demand for housing plots in these corridors. The real estate sector was opened to Foreign Direct Investment (FDI) up to 100% in 2006 (FICCI 2012), consequently, one can see the apartment industry growing in the peri-urban region of the city. Homm’s (2013:70) study throws light on the rapid growth of the apartment industry in peri-urban Chennai; of the 34,773 units built in peri-urban region nearly 78% of them are in Western corridor (Sriperumpudur and Oragadam) and about 12% in Southern corridor (OMR). Foreign firms are involved in building most of these apartments and they christen these as ‘Palace Garden’, ‘Palm Grove’ ‘Roma Paradise’ in order to attract the urban middle class and these complexes are provided with amenities such as clubs, supermarkets, swimming pool, school, library etc.

‘Agriculture is going down’ is a common phrase in peri-urban Chennai according to Homm (2013) and the one major reason attributed to this is the ‘land market’ which is the effect of urbanization and industrialization in the peri-urban region. The peri-urban region has witnessed
the dramatic increase in the land prices due to real estate activities. The demand within the CMA region has almost saturated because of the low availability of land, so the peri-urban region having supply of agricultural land has shown rise in guideline value (a value fixed by the Government for the land) by 270% on an average (Ramakrishnan 2012). In addition to this guideline, value there is ‘market value’ fixed by the real estate firms and brokers (Homm 2013:108). The market value, which is used for actual transactions is generally higher than the guideline value.

The ‘Real estate business has become an avocation to make quick money’ notes the High Court of TN (Imranullah 2014). The agricultural land is converted to plots with fencing separating the layouts created and are highly marketed. The signboard across the major corridors like NH4 and OMR pointing to the availability of residential plots and advertisements in the local channels with the small screen actors promoting the plots enumerating the benefits of buying the plot is a testimony to this.

Most of the plots developed are sold to the investors who believe in ‘investing’ rather than constructing houses. The demand for plots in the peri-urban Chennai is about 40% more than the constructed houses (Yogesh 2014). Investing is plots is seen as profitable investment (The Hindu - Tamil Edition 2014). Residential plots along peri-urban Chennai has become a chief point of investment to the Non Residential Indians (NRI) as well (ETASTAR. 2014). Nagarajan (2012:1) notes that plots in southern and western regions are always in high demand due to various developments like industries, infrastructure and transport and this has led to the ‘spurt in land prices’

‘There has been a consistent demand for developed plots in and around Chennai, according to land developers. A number of projects coming up in suburbs have seen the prices doubling in a span of just four years in select areas’ (ibid).

The property dealers are offering special offers for NRIs like maintenance and resale of the plots making it the desired investment option among NRIs. Thus, the land market in the peri-urban Chennai turns into a speculative investment option expecting higher prices in the future.

‘The land market in peri-urban spaces around large Indian cities is developing so rapidly, it is already seen as responsible for producing a new type of ‘speculative urbanism’, where rural spaces are turned into urban real estate by powerful alliances between real-estate brokers and politicians’ (Homm 2013:106)
3.3 Land-Use Policies

The Indian Constitution under the Articles 39 (b) and (c) of Directive Principles of State Policy mandates the ‘preservation and conservation’ of natural resources for common good. Thus, at the central level Ministry of Agriculture, Ministry of Environment and Forests and Ministry of Rural Development are responsible for ‘conservation and management’ of land resources. The Department of Land Resources under the ministry of Rural Development co-ordinates various programs related to land-use and management from the central government end. The Constitution with the 73rd and 74th amendments allows participation of rural local bodies – panchayats and urban local bodies – municipalities. Urban planning, land-use regulation are enlisted as functions of the municipalities. The National policies act as guidelines to the State Government and has no binding on the State Governments as land is State subject in India and the Constitution allows every State to form and modify policies according to the local needs and situation (Negi 2012:150).

Shah and Kumar (2008:365) note that in India although the land conversion policies are ‘conservative and conservationist’, but they are ‘liberal’ in practice. These policies appear not to take into consideration the growing demand for land for manufacturing and urbanization and they lack transparency in mentioning the extent to which the land can be converted and for what uses. They add the policies appear to be biased based on the fact that nearly 60% of Indians depend on agriculture leaving behind the fact that agriculture contributing 24% of GDP occupies nearly 64% of land whereas the manufacturing and service industry contributing 76% of GDP occupies mere 8% of the land area.

3.3.1 National Policies

The National Farmer Policy (2007:4) mentions ‘Prime farmland must be conserved for agriculture except under exceptional circumstances’. It mandates in case of such conversion, the converting agency should be responsible in developing the equivalent volume of wasteland and compensating the same to the affected farmer. The policy does not detail what can be considered as ‘exceptional circumstances’ and what if the conversion does not adhere to the policy by compensating developed wasteland.

The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement act (2013:10) in Chapter III that mandates food security under clause 10(1) notes ‘no irrigated multi-cropped land can be acquired’. However, in clause 10(2), it says such land can be acquired under ‘exceptional circumstances’ but restricts only 5% of total irrigated area of the district can be acquired. The act mandates that ‘equivalent area of cultivable wasteland shall be developed for agricultural purposes’, but the act does not talk about violations of these rules. Further, the act exempts land acquisition for infrastructure from its purview. It is worthy, to note at this junction the Land Acquisition Act of 1894, which was in force until 2013, did not have any reference to preventing the acquisition agricultural/cultivated land. It even had a clause 4(2) permitting the officer in-charge to destroy the standing crop if it is an inhibition to acquisition (GoI:4).
The recent policies under formulation (Draft) stage by the Department of Land Reforms in 2013 namely National land utilization Policy and National land reforms policy deal with conversion of agricultural land. The main objective of the former policy is ‘protection of agricultural land’ from land conversion’ (GoI 2013b:18) and it is is expected to replace the National Land-use Guidelines of 1988. The later policy suggests a strict monitoring should be in place to ensure that only barren and non-cultivable land is converted to industries and other non-agricultural use (GoI 2013a:20). These policies are expected to act as a ‘guideline framework’ for the State governments to design their policies of land-use.

It is to be noted that all the recent land related policies give importance to preventing land-use conversion as compared to earlier ones and this shows the urgency of the issue and the importance that the central government assigns to prevent transformation of agricultural land. However, this is just one side of the coin, whereas the policies related to urbanization like JNNURM (2011) has outlined a procedure to make the conversion of agricultural land easier. The framework desires to ensure easy availability of land for urbanization and considers the existing laws pertaining to the same are bottlenecks. The land conversion procedure is time consuming with the requirement of many approvals is common feature across the States with respect to land conversion. Some States even charge high fees for the conversion of agricultural land to non-agricultural use. The framework suggests delinking the submission of development plan at the time of applying for land-use conversion as the farmer may not be the developer, and they sell their land to relator who is the ultimate benefiter of the entire transaction. This shows the policy conflict, while those related agriculture and rural development want to prevent land-use conversion; the ministry of urbanization wants to relax the procedure of converting agricultural land to make land available easily for urbanization.

### 3.3.2 State Policies

Some States like Andhra Pradesh, Kerala, and Maharashtra have specific policies preventing the land-use conversion from agricultural use to non-agricultural use (JNNURM 2011:4), however, in TN there is no such exclusive legislation. In TN there are clauses in certain policies and acts that mandates the conversion of fertile land to be kept to minimum extent as possible. The State Government through the Order number 885 dated 2005 (Vijayabaskar 2010:39), has given authority to the district collector to negotiate privately with the landowners and the collector is empowered to offer the price as high as 150% of the guideline value or market value whichever is lower. The TN Acquisition of Land for Industrial Purposes Act, (1999) offers negotiation as against legal route to settle the land acquisition and expedite the process. The TN Industrial policy (2014:31) states ‘The lands required by the company shall be barren, non-irrigated and dry land to the extent possible. Land requirement with more than 10% wetlands will not be entertained’ but the High Power Committee that the policy proposes can consider the conversion even if it is more than 10% of the cultivated land. It can be inferred from these policies, that the GoTN is not keen on stringently restricting land-use conversion.

While the above policies deal with land acquisition for industries, Land Reforms (fixation and ceilings) Act ( 1961), restricts land holding up to 15 acres for agricultural use; however, under
the section 3(22) of the act, there is no such upper limit for non-agricultural land-use. The TNTCPA by DTCP is the chief act that regulates residential and commercial land-use (GoI 2007:42). The act until 2011 mandated the permission of Thasildars, Taluk level officers to ensure the land under consideration is not agricultural land. However, with the 2011 amendment act, the section 47(A) has entrusted the authority with the District Collector. The Government Order 24935/10GR (GoTN 2011), clearly lists the role of the district collector in the process. It requires the collector to inspect the land along with Regional Deputy Director of the planning body say CMDA or DTCP. The collector is required to ascertain the irrigation sources available to the land, the present status of cultivation and for how long the land remained uncultivated (as the case may be), the surrounding developments/cultivation of this land and the effects the land conversion might have on ground water and irrigation channels affecting the nearby land. Only when the collector is satisfied that the land is not cultivable, he can give permission. It is based on collector’s concurrence, the planning authority say CMDA or DTCP can approve the conversion of wetlands.

The twelfth five-year planning report of TN (2012:746) asserts though there are restrictions to prevent land-use conversion, these are relaxed when the cultivated land lies between non-cultivable land and also when the dry land is not available in that particular region. It mandates passing a separate act as in other States like Kerala with the main objective of protection of wetlands.

Although, both the national and state policies state the need for protection of agricultural land from being used for non-agricultural use, it is to be noted that none of the policies discussed have clauses related to consequences of non-adherence. Shah and Kumar (2008:367) point out the existence of such gaps in policies leads to implementation difficulties as many a times, the decisions are taken under pressure and influence of powerful people having vested interests. They add such not well laid policie creates ‘fertile ground’ for corruption.

3.3.3 Irregularities in Land-use conversion

In spite of these policies to convert agricultural lands into non-agricultural lands, there are large-scale conversions of agricultural land in the peri-urban Chennai. There is huge gap in actual policy and its implementation (Shah and Kumar 2008:398). This is due to interests of various stakeholders involved in the process including farmers who to make quick money. A large portion of land converted remains idle as plots because of speculative reasons. While it is true that farmers are willingly selling their land as ‘to get rid of the land and farming as an occupation’, and not only do the relators benefit from the entire transactions, the farmers both large and small have shown improved economic status. There are losers as well (ibid).

The real estate firms and property dealers who have access to information about the new project development in the area are determined to buy land from farmers much lesser than the market value. There is always information asymmetries, the price one farmer receives is not revealed to the other. These actors ensure to prevent transparency and create disparity among the farmers selling the land. The developers go to the extent of spreading rumours that land prices will fall in
the future and hence it is the best time to sell land and enjoy the money. On the other hand, the farmer who might not have seen huge money at one go is happy on receiving it without even being aware of the exorbitant profit that the property developer might make by transforming his land into plots (Homm 2013)

The property developers transform the agricultural land into plots and make them as marketable commodity. The signs boards across the various roads in peri-urban Chennai and the Television commercials in the prime slots testifies this. They lure people in buying these plots promoting them as investment for future. ‘The thriving land market empowers local networks and institutions that regulate landownership. Town and village institutions gain ample opportunities for corruption, patronage and long term clienteilism’ notes Homm (2013:117). There has to be multiple approvals for the plan of the plots made from agricultural land by the lowest officer in the administration, VAO to the DTCP or CMDA. Without out these approvals it is illegal to sell the plots and construct houses. Homm (2013:126) notes that bribing is always involved in such transactions and adds ‘powerful informal networks’ with land owners, brokers, local politicians and even public servants dominate the land market in peri-urban Chennai.

The land developers have found an alternative of marketing the unapproved plots as ‘panchayat approved plots’ (Indiarealestateforum. 2013). Although, approval of the local panchayat is necessary, but it is more important to have approval from DTCP or CMDA. These are as good as unapproved plots, but the real-estate firms project them as approved plots to make quick money. The Hindu (2014) has cautioned people on buying such plots in peri-urban Chennai.

3.3.4 Legal Intervention

The Supreme Court of India has sent a ‘notice’ to both the Union Government and the State Governments in response to the petition filed stating nearly 38% of agricultural land in the country was transformed to urban structures in the past 10 years and the Governments has not taken any action to prevent this. The petition notes this phenomenon is on the rise in States like TN, Gujarat, and Andhra Pradesh (Dinamalar 2014).

Real Estate business has become easy way to make money and this has led to increase in crime rates ranging from land grabbing, forging document and even murders. The Madras High Court has directed the State Government to submit details pertaining to number of murders and kidnapping incidents, land grabbing and forging incidents, role of government officials in land-use conversion and the action taken by the State Government to regulate the real estate business in the state. ‘As offences relating to real estate have risen in the past 10 to 15 years and absolutely there is no mechanism to regulate the real estate dealings, the above details are necessary to pass appropriate orders’ noted the Judge (Imranullah 2014)

In a recent verdict, the Madras High Court noted the land grabbers and those who forge documents to convert agricultural land deserve ‘finger chopping’. The judgement mentions ‘If laws are so rigid and deterrent, criminals will not dare to indulge in illegal activities…officials of the sub-registrar office were hand in glove in helping the criminals to usurp and loot properties of the innocents’ (Sangameswaran 2014). From the above-mentioned instances, where in Indian
Judiciary has shown concern on land governance issues, it can be inferred that the land-use is taking utmost importance in India.
Chapter 4: The Case of Kondancheri Village

A village in peri-urban Chennai, Kondancheri where agricultural land is converted to non-agricultural use is chosen as arena to understand the various stakeholders involved in land-use conversion, implementation of formal land-use policies and ascertain the involvement of the stakeholders in informal mechanisms explained in the previous chapter.

4.1 Reasons for choosing the Village

My area of study is primarily the Kondancheri Mettu Kandigai hamlet, where one could witness huge scale land conversion from Agricultural to other commercial uses predominantly housing plots. According to me the Kondancheri village qualifies the definition of peri-urban used in this paper – there is mix of urban and rural land-use and villagers commute to the city regularly for work as the distance is about 40 Km from the city’s core area.

4.2 Location

The study village, Kondancheri is a Panchayat village in the Kadambathur Taluk of Tiruvallur district in TN. It is situated at a distance of 44 Km in the North-west direction of the Chennai Mofussil Bus Terminus (CMBT). From the CMA boundary, the Chemberumbakkam lake, the village is 21 Km. The road State Highway 120, from Thandalam Koot Road to Thakolam, a 20 Km stretch which bifurcates from the National Highway 45 to Bangalore leads to the village. The National Highway 45 is one of the busiest roads and highly industrialized as well. There are Multinational companies like Nokia, Dell, Asian Paints, Samsung situated in along the highway between Poonamalle and Kanchipuram. One can come across academic institutions like engineering colleges, international schools and amusement parts in the said highway.

4.3 Demographics

The population of the village according to the Census (2011c) (Director of Census Operations 2011) is 1916 with almost equal men (973) and women (943). Thirty seven percent of the population are categorised as scheduled caste people. The village comprises of five different hamlets namely Kondancheri, Kondancheri Bust Stand, Kondancheri Colony, Kondancheri Mettu Colony and Kondancheri Mettu Kandigai. These are hamlets are divided based on caste. The Kondancheri and Kondancheri bus stand is occupied by Mudaliars who speak Tamil as their primary language and the Telugu speaking people belonging to the Kamma Naidu category occupy the Mettu Kandigai hamlet. These two are upper caste hamlets. People belonging to the scheduled caste considered as lower caste occupy the other two hamlets.

The Details referred are from the author’s field visit and not from any published source.
4.4 Occupation
The occupation of upper caste people was mainly agriculture and of late, the residents have diversified to different occupations like employment in government sector, private sector employment, business etc., because of the higher education status. The village elders and some young men are involved in the agricultural activities at present. Whereas, those categorized as lower caste are employed as as agricultural laborers in the lands of the upper caste villagers. The youngsters from these colonies have started working in the industries that have come up in the Thakolam road (SH 120) and nearby Sriperumpudur SEZ in the past 10 years and some are employed in Government sector as well.

4.5 Land-use in the Hamlet
The hamlet lies in between dry Cooum River on one side and an irrigation canal on the other. There are 22 households in the hamlet and the total land owned by residents of this hamlet is approximately 170 acres. About 80 acres of land in the hamlet is categorised as ‘Nanjai’ or wet land cultivated through river and water bodies and the balance is categorised as ‘Punjai’ or non-irrigated land. However, according to the local residents, these classifications had ceased to exist as now most of the land is cultivated only using tube wells which are operated by electricity provided free of cost by the GoTN for agricultural purposes. Paddy is the chief crop of the hamlet and is cultivated two times in a year in the season from January to April and from August to December. In ‘Nanjai’ land, the soil is sandy in nature and may not absorb water, so paddy remains the chief crop of cultivation. Where as in the ‘Punjai’ land vegetables and groundnuts are cultivated in the period from May to August.

4.6 Rural-Urban linkages
The road, SH 120, from Thandalam Koot Road to Perambakkam, the neighbouring town to the hamlet and further beyond has seen drastic conversion in the land-use. The road has seen plethora of industries, both well-established and small start-ups in the past few years. Empee group, Parle Agro, Nifco South India, Rhenus logistics, Dymos Automotive, Delphi TVS are
some of them. Further, 125 acres of land in nearby village, Irungattukotai, Mapedu is acquired by SIPCOT industrial estate for developing as dry port and was handed over to Madras Port. There are no activities expect for a sign board ‘This Land belongs to SIPCOT, trespassers will be prosecuted’. The SH 120 is being re-laid now into four-lane road by the highway departments to facilitate the heavy vehicles that might be moving to and from the dry port once when it starts functioning. These developments in the recent 5 to 7 years has seen rise in the land values across the SH 120. When one travels in the road, one could see coexistence of real estate offices, placards and posters advertising the availability of housing plots, agricultural land converted into plots, agricultural cultivation activities, mango orchards, industries, village houses and roadwork activities.

The changes in the SH 120 has had an effect on the Kondancheri village as well. The next chapter attempts to answer the research questions raised, based on the discussions with the residents of the hamlet with respect to the land-use conversion.
Chapter 5: Analysis: Informal Mechanisms Overpowering the Formal Dynamics

In the hamlet under study, 54 acres of fertile agricultural land is to the south of the hamlet and adjacent to the SH 120. A real estate firm has acquired 26 acres of the land and started developing it as housing plots. The lay out by the real estate firm is christened as ‘Vasanthapuram Phase I and Phase II’. Of the remaining 28 acres, the residents of the hamlet cultivate 25 acres, either directly or by leasing them to a relative in the villager.

5.1 Stakeholders and their interests
The conceptual framework introduced in the chapter has identified involvement of ‘multi-stakeholders’ in the land development systems. Based on my discussion with the residents of the hamlet and studying the peri-urban land use literature, I could understand there are various groups with varying interests in the land-use conversion. I could identify the following as the main stakeholders in the process – the farmers who are cultivating at present, land owners who do not cultivate directly but have leased out, landless agricultural labourers, the other residents of the village, village representatives, real estate firms/property developers, local government functionaries and the public institutions. I have attempted a stakeholder analysis, to understand the interest of these groups in the conversion process based on the interviews.
Table 3: Stakeholders and their interests in land-use conversion in Kondancheri Village

<table>
<thead>
<tr>
<th>Stake Holder Category</th>
<th>Who are they?</th>
<th>No of people contacted</th>
<th>What they have to say on land-use conversion</th>
<th>Interest in the Land Conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cultivating Farmers</td>
<td>Residents of the village, Elderly people and some youngsters whose education level generally is not more than secondary school level.</td>
<td>4</td>
<td>‘Main occupation’, ‘Not easy to find other jobs’ ‘inherited from my ancestors’, ‘why now-price may rise further’, ‘if I get lump sum can start a business’</td>
<td>Consider land conversion as a threat to their livelihood. However, receiving huge sum at one go makes some to think about selling their land. Though not keen on selling land to the land developers, some are ok, if they receive enough money to start alternate business.</td>
</tr>
<tr>
<td>Non-Cultivating land owners</td>
<td>Residing outside, mostly in Chennai – Government and private sector employees, have leased the land to present cultivators</td>
<td>1</td>
<td>‘If I get right price, I am ready to sell’ ‘income from land is not lucrative and it is just an additional income’</td>
<td>Depending on the present Price, they are ready to sell. But are fine with waiting if prices are expected to rise in the future.</td>
</tr>
<tr>
<td>Landless agricultural laborers</td>
<td>People from the Mettu colony</td>
<td>4</td>
<td>‘decent 9 to 5 job’, ‘regular income’ – so prefer employed in neighbouring industries. A middle aged women noted ‘youngsters can get the employment, but, what about us’ ‘no place for even grazing our cattle’</td>
<td>As long as an alternative option of working in industries is an option they are not affected. However, the elders and some women who are not in a position to gain alternative employment believe the land conversion as a threat</td>
</tr>
<tr>
<td>Other residents of the village</td>
<td>Those who have already sold their land and engaged in other occupation like owning a shop in nearby town</td>
<td>2</td>
<td>‘agriculture was not profitable – labor problems’ ‘my son is the States, so he will never want to cultivate’ ‘Better roads and</td>
<td>They tend to influence others to sell land indirectly by their improved lifestyle after selling the land and changing occupation or some time ‘promote’ the advantages of selling the land. Interested in better infrastructure due to urban impact</td>
</tr>
<tr>
<td>Stake Holder Category</td>
<td>Who are they?</td>
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<td>-------------------------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The Local Village representatives</td>
<td>The Panchayat president (woman in this case) and her husband, the councillor</td>
<td>1</td>
<td>‘It is their wish, who am I to comment’</td>
<td>Act as negotiators between the landowners and Property dealers/real estate executives.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Few respondents believed they get a share from the property dealer if the deal is a beneficiary to the relator.</td>
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<td></td>
<td></td>
<td>A cultivator noted ‘he is behind me to sell my land and is promising to get better rates than offered to others’</td>
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<td></td>
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<td>Their role is important to the real estate developer as their support is required in getting some basic infrastructure to the laid plots</td>
</tr>
<tr>
<td>Property developers/Real estate firms</td>
<td>The employees of the real estate firm that had purchased more than 50 acres of land The firm has strong financial strength and political influence (A MLA, officially ‘launched’ the plots)</td>
<td>1</td>
<td>‘All the procedure has been followed’, ‘we will get necessary approvals for the land’, ‘I am only a manager, only my owner can talk about the price deals’</td>
<td>The property developers are strongly interested because of high returns and gain.</td>
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<td>A non-cultivating land owner noted ‘they have illegally occupied part of my land and the councillor is negotiating with me so as to smoothly close the deal’ – Allegation of forging document and involving goons to ensure that they purchase the land they want</td>
</tr>
<tr>
<td></td>
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<td>‘The councillor and VAO joins them whenever they visit the village’ - Have the support of village representatives and government employees</td>
</tr>
<tr>
<td>Stake Holder Category</td>
<td>Who are they?</td>
<td>No of people contacted</td>
<td>What they have to say on land-use conversion</td>
<td>Interest in the Land Conversion</td>
</tr>
<tr>
<td>---------------------------------------------</td>
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<td>------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Village level Government functionaries</td>
<td>VAO</td>
<td>1</td>
<td>Requesting confidentiality, he noted 'the pressure is high'</td>
<td>There appears to be political pressure to him to process the documents with ease. Responsible for primary checking if the land is converted as per the policy guidelines and report it to District collector in case of any irregularities. It appears that he is working closely with the firm and the councillor for material gain.</td>
</tr>
<tr>
<td>Government and Public Institutions</td>
<td>Sub Registrar Office, District Collector, CMDA officials</td>
<td>1</td>
<td>‘We understand there is illegalities, but there is not much will to change the situation’</td>
<td>‘No collector or other officials have visited the village to inspect the land’</td>
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<td></td>
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<td>‘The land was under cultivation even till February/March; you can see I have planted paddy in the adjacent field’</td>
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<tr>
<td></td>
<td></td>
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<td></td>
<td>Policies are there, but appears that they are not implemented</td>
</tr>
</tbody>
</table>
5.2 Have the objectives of the existing land-use policies met?

The response ‘The land was under cultivation even till February/March; you can see I have planted paddy in the adjacent field’, and cultivated land nearby shows that land is converted into plots was under cultivation till few months ago. A random check of the survey numbers mentioned in the Vasanthapuram brochure – 304, 305,314, and 315 in the registration department webpage mentions these as wet lake, wet well and dry well irrigation land. This proves that land is still classified under cultivable land. Further, the village is part of the World Bank’s Irrigated Agriculture Modernisation and Water-Bodies Restoration and Management (IAMWARM) Project as read from a nearby signboard show the importance of agriculture in that region. This project aims at restoring the Cooum River and the lake. However, the Vasanthapuram brochure has already started advertising the plots made from cultivable land.

A villager noted the buyers of the plots are from the city and sometimes even from the neighbouring districts. He added, ‘every Sunday there is a mela conducted and they serve free food to the visitors’. The increased number of print and television advertisement testimonies his Statement. The real estate firms advertise the plots in the Tamil-channels with the actors from small screen industry acting as brand ambassadors. Sundays become the busiest day of the week, as these real estate firms bring people in the sports utility vehicles from the city free of cost to the land layout and provide them with lunch. Interestingly, some of the real estate firms offers few grams (ranging between two to five) of gold as ‘free gift’ if someone does a spot booking of the plot. In addition, there are bumper prices like a car, free trip to some tourist place to be won based on random selection of the buyers who pay the entire amount within few days of the initial booking. The firm has advertised proving 500 bags of cement free of cost to the first 500 homebuilders in the Vasanthapuram (Rich India Housing Private Limited 2014). However, a respondent mentioned that these plots are sold mainly for investment purpose expecting the prices might rise in next few years and he was confident there might not be many houses constructed in those plots.

I could not conclude, because of lack of proper evidence that the district collector has approved the conversion of agricultural land, which was under use till few months back. However, from ‘No collector or other officials have visited the village to inspect the land’, I can infer two possibilities; either the collector’s permission is not sought as mandated by the TNTCPA or the collector has given the permission without proper inspection. In either way, the Section 47(A) of the act is violated. This shows the objectives of the National and State policies discussed in the chapter 4 are not met.
5.3 Influence of stakeholders on policy implementation

The discussions with manager of the real estate firm gave light on the land conversion process. He mentioned that the panchayat president of the village and in this case her husband who is the councillor is their point of first contact. He added that he does not know the actual deals between the firm and the councillor. ‘There are always farmers who come forward selling their land and using them as mediators and the local village representative as negotiator the company tries to purchase the nearby land’, notes the manager. A cultivating farmer’s response ‘he (councillor) is behind me to sell my land and is promising to get better rates than offered to others’ testimonies the influence of certain villagers exhibit on others to sell the land to the property dealer. The manager was confident in saying ‘we will get necessary approvals for the land’. It can be understood the power relations between the firm and the public institution. Interestingly, it is the Member of Legislative Assembly visited the site to ‘launch’ the inauguration of the ‘Vasanthapuram’ project. This confirms the manager’s statement, that the firm will ‘certainly’ receive the required approval. Further ascertains ‘Right from the local MLA to the village development officer, all are hand in glove in this (land –use conversion) at a number of places’ (Prabu 2011)

The guideline value (2014) of the land with the the survey number 315 is 22 lakh or 2.2 million rupees per acre. Although, I could not get the actual amount paid to the farmer who had sold this land, I understand from the rumours of the village that the price paid ranged from 20 lakhs to 25 lakhs. Taking the median value, I understand the farmer who has sold his land would have received 23 lakhs or 2.3 million/acre of land. The real-estate firm has advertised a plot of 1200 sq.feet, which is 0.028 acres at Rs. 4,50,000. Based on simple arithmetic, for one acre of land at this cost, the firm is expected to make Rs 1, 60,71,429 a whopping 60% profit. In addition, none of the farmers who sold their land revealed an exact figure, as they do not want others in the village to know about the same.

The Vasanthapuram brochure notes the land bearing survey number 316/2A as part of it. However, the owner of the land confirmed that he has not sold the land and he is not interested in selling it. The Encumbrance certificate (2014) of land obtained from the registration department webpage and the patta document that the farmer had, clarifies that the land is not been sold. However, a part of the land is occupied by the firm and have demarcated it as their territory. The owner mentioned ‘there have been several negotiations with me by the village councillor and when I refused to part with my land, there were threatening calls from some unknown persons’.

5.4 Formal Dynamics vs Informal Mechanisms in land-use conversion

The National and TN policies dealing with land-use conversion are detailed in the section 3.3. These policies are found to be in line with the good governance principles discussed by the World Bank and FAO framework and referred in the conceptual framework of this paper. The JNNURM (2011) primer on land conversion mandates ‘Transparency’ by means of single window processing of applications and evaluations with respect to the existing legislature. It
obligates to the authorities to either approve or reject land-use conversion within a specific time limits in line with the ‘**Speed and predictability**’ principle. It requires the authorities to clearly and concisely state the conditions within which land may be converted, and to do away with non-value adding procedure in the process. It argues ‘**effective and efficient**’ regulation might curb the land-use conversion due to speculative reasons. The primer requires ‘**escalation mechanisms**’ and improved capacity of the public institutions to make and evaluate ‘**land-use plans**’.

Similarly, TNTCPA (1972), the ‘parent act’ dealing with land-use conversion in TN prescribes **Transparency** in the form of making the required information pertaining to land-use conversion to all the stakeholders. The act mandates issuance of public notice to raise objections regarding land-use conversion, thus insisting on **participation**. It requires the site visit by the appropriate authorities in order to approve/reject the land-use conversion. The act prescribes a maximum **time-frame** of six months for either approval or rejection. It requires the proper **land-use plans** to be accompanied with the application and insists that these should be in the lines of the Development Control Rules. It is prohibited to develop the land for non-agricultural use without the permission from the respective authority.

Although, the policies enforce the land governance principles, but the reality based on the observation and discussion with the stakeholders in the Kondancheri was not in line with these policy frameworks.

The influence of local village representatives like panchayat president and councillor, property dealers, VAO, politicians on land-use conversion is evident from the Stakeholder analysis discussed in the Table 3. This clearly brings out the **power dimensions** mentioned in the conceptual framework. As mentioned by Rao (2012:134), the presence of multiple governance bodies is evident in peri-urban Kondancheri. The institution range from local leaders, VAO, local politicians, District administration and the planning body like DTCP. Most of these institutions have a role in land-use conversion either formally or informally as explained in the above sections. Thus, the dimension of **legal pluralism** is perceivable here. The conversion of land, which is still classified under wetland type in the registration department data base into plots and widespread advertising these plots, and the local MLA inaugurating the unapproved layouts shows the prevalence of **corruption and clientelism**. The case case of interviewee, who mentioned about the property dealer illegally occupying his land and the local representatives attempting to convince him to sell the land to the property dealer by means of negotiating, and threatening calls shows that land-use conversion happens through **forceful mechanisms** as well.
By considering the Kondancheri as the policy arena, it can be understood that the informal mechanisms influence the implementation of formal policies, thus resulting in the land-use conversion in the village.

**Figure 8: Formal and Informal Dynamics that influences policy implementation in Kondancheri**

Thus, the case of Kondancheri village is clearly a case in point and confirms what Homm (2013:126) has noted about the manifestation of informal networks and their influence on implementing formal policies.

‘The networks of the actors involved in producing the land market are made up of trust, informal reciprocity and open forms of cooperation. Since many of the activities are illegal or semi-legal, it is in particular the weakness of governance often associated with peri-urban areas that allows the networks of land brokers, local politicians and company representatives to make enormous profit by forging largely uncontrolled land deals’
Chapter 6 Conclusion

The previous chapter answered the three sub research questions raised in chapter 1. The various stakeholders and their interests in land-use conversion were identified. Analysing the process of land-use conversion in the Kondancheri village gave the answer to the second question that the objectives of national and state level policies prescribing prevention of land-use conversion are not met. The discussion on informal power relations like existence of knowledge gaps in terms of price offered, the local village representatives acting as mediators and influencing the farmers to sell their land to real estate firm, shows that, the powerful stakeholders influence the policy implementation process, thus, answering the third sub question.

It can be noted that there is lack of transparency in the method of acquiring the land and converting it into housing plots in Kondancheri village. The people are not involved in the process and their views were not considered by the official machinery. No defined appeal mechanism exists for the farmers who are not interested in selling the land, but is forced/persuaded to sell, or whose land is illegally occupied, except for seeking the help of the court, which is a lengthy and time consuming process. The presence of formal and informal institutions governing the land-use, prevalence of bribes, political influence ascertain that informal mechanisms definitely overpower the formal dynamics in land-use conversion in case of peri-urban Chennai. This answers the main research question that land-use conversion predominantly happens through the informal mechanisms and the formal policies and good governance principles though exist, their implementation has certainly taken a back seat as noted by Mossee (2004:663) that ‘Good Policy is unimplementable’.

Baradhan and Tewari (2010)note that land-use conversion from agricultural use to non-agricultural use is a common phenomenon throughout India and in the States of TN, West Bengal and Kerala is more significant. They again attribute Urbanization and Industrialization as the chief causes for the same. This phenomenon is unavoidable for the country’s economic growth and I accept the fact the development needs land and cannot happen in air. I subscribe to the opinion of Shah and Kumar (2008:399) that strictly restricting the land-use conversion will always pave way for illegal means, which might be difficult to control and on the other hand liberating might have effect on food security of the nation as predicted by Lambin and Meyfrot (2014:12)that Potential Available Crop land might become a ‘scare resource’.

Further, when ‘low returns to agriculture on the one hand, and vibrant land markets on the other, driven largely by speculation and the rise of new uses of land, for many farmers in TN, land appears to be more a store of value than a source of livelihood’ (Vijayabaskar 2010:42) the farmer prefers to move away from agriculture and the same needs to be considered.

A possible solution in the short term might be State controlling the informal networks that control the land markets and allowing the formal mechanisms to function by themselves. It might benefit the farmer and the State. The implementation failure which is the Achilles’ heel of Indian policy, as noted by Pritchett and Bhattacharya (2012), needs to be addressed. Murgesan a farmer from TN (in Prabu 2011) asks
'Though the Government is giving free goats and cattle, they do not bother to prevent the sale of fields into plots? In short, there is no governance, only politicking. Our elected representatives are only interested in ribbon cutting and posing for photos rather than addressing our problems. What can we poor farmers do? Will our voice be heard in the portals of power?'

The long term solution for the land use conversion is making farming attractive. From just a rural vocation, the Government may consider promoting it as occupation by creating ‘Special Agricultural Zones’ as noted by Baradhan and Tewari (2010:675) on the lines of SEZs to attract young people to farming. ‘Making farming attractive’ is an important area that needs detailed research.
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Appendix A – Some pictures from the field

<table>
<thead>
<tr>
<th>High-rise Apartments coming up near the village</th>
<th>Agricultural land converted into plots</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.jpg" alt="High-rise Apartments" /></td>
<td><img src="image2.jpg" alt="Agricultural land" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cultivated Land next to plots</th>
<th>World Bank IAMWARM project in the village to revive irrigation sources</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.jpg" alt="Cultivated Land" /></td>
<td><img src="image4.jpg" alt="World Bank IAMWARM" /></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>One of the Mushrooming Real-Estate Offices in the SH 120</th>
<th>Catchy Real-Estate Advertisements</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5.jpg" alt="Real-Estate Offices" /></td>
<td><img src="image6.jpg" alt="Real-Estate Advertisements" /></td>
</tr>
</tbody>
</table>