LAND USE PLAN
KILINOCHCHI DISTRICT

Prepared onthe recommendationsgiven by the

Lessons Learnt and Reconciliation Commission (LLRC)

Prepared by

Land Use Policy Planning Department

Ministry of Lands

2016

LAND USE PLAN

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Land Use Policy Planning Department

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PART- 1

1. INTRODUCTION

The Lessons Learnt and Reconciliation Commission (LLRC) of 2011 recommended that **"a land use plan for each District in the North and East should be developed with the participation of district and national experts drawn from various relevant disciplines to guide the district administration in land conservation and alienation in order to ensure protection of environment and bio-diversity; sustainable economic development; leisure and recreational standards; religious, cultural and archeological sites with a view to improving the quality of life of the present and future generations".**

The preparation of the plans was entrusted to the Land Use Policy Planning Department (LUPPD). The LUPPD started the planning process by establishing two expert groups, one at the National Level and the other at the District Level. Field work was commenced in 2013. Initially the available land use maps were updated to study the current patterns of land use and subsequently major land use issues were identified based on the field investigations. Recommendations to address the land use issues were formulated and these were presented to the Expert Groups and Stakeholders for their views and comments. The plan for the district has been prepared incorporating the views and comments of the Expert Groups and the Stakeholders.

The Plan is divided into two parts. Part I provides the background for the plan. Part II gives the land use plan.

2. DISTRICT PROFILE

2.1 Introduction

Kilinochchi District is one of the 25 districts in Sri Lanka and it is located between 09°25′-N and 80°25′E in the Northern Province. This District is bounded by Jaffna District from the North, Mannar and Mullativu districts from the South and Indian Ocean from the East and the West. (Figure 2.1) It covers 1333 Sq.km, approximately 1.95% of the total land area of the country.

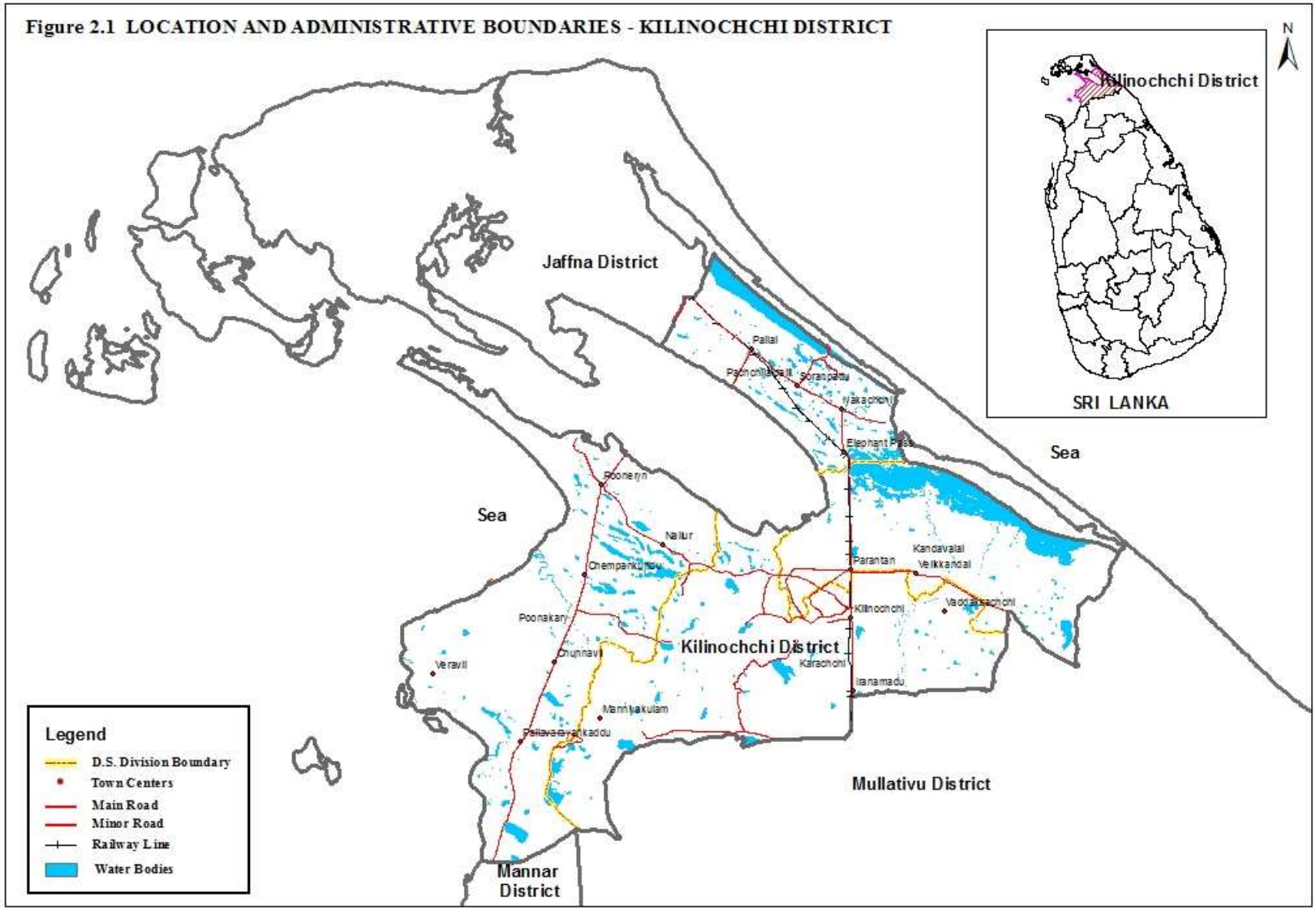


Figure 2.1 LOCATION AND ADMINISTRATIVE BOUNDARIES - KILINOCHCHI DISTRICT
N
Kilinochchi District
SRI LANKA
Jaffna District
Sea
Sea
Pallai
Paranthan
Kandavalai
Velikkandai
Kilinochchi
Kilinochchi District
Karachchi
Iranamadu
Mullativu District
Mannar District
Legend
D.S. Division Boundary
Town Centers
Main Road
Minor Road
Railway Line
Water Bodies

2.2 Administrative Structure

Kilinochchi District is divided into 4 Divisional Secretary's Divisions (D.S Divisions), namely Kandavalai, Karachchi, Pachchilaipalli and Poonakary. The D.S Divisions are further sub-divided into several *Grama Niladhari* Divisions (GNDs).The total number of GNDs is 95. (See Annex III) Grama Niladhari Each GND consists of several villages. Kilinochchi District has three local authorities *(Pradeshiya Sabhas)* namely Karachchi, Poonagari and Pachchilaipalli.

Table 2.1 DS Divisions and Their extents in Kilinochchi District.

Divisional Secretariat Division	**Area(sq.km)**
Karachchi	438.0
Kandawalai	263.0
Poonakary	454.8
Pachchilaipalli	177.2
Total	1333.0

Source: Statistical Abstract 2011, Department of Census & Statistics

2.3 Physical Environment

2.3.1 Topography

The Topography of the district is flat to slightly undulating. The elevation is varying from 0-250 m MSL. However, the elevation of the majority of the area is less than 10 m MSL.

2.3.2 Soils

The major soil types and their distribution in the District are shown in the Figure 2.2. The dominant soil group (approximately36.36% of the total extent of land) in the district is Red yellow latosols. The next dominant soil group is Soladized solonistz & solo check in flat terrain. It occupies about 27.27%of the total land area.

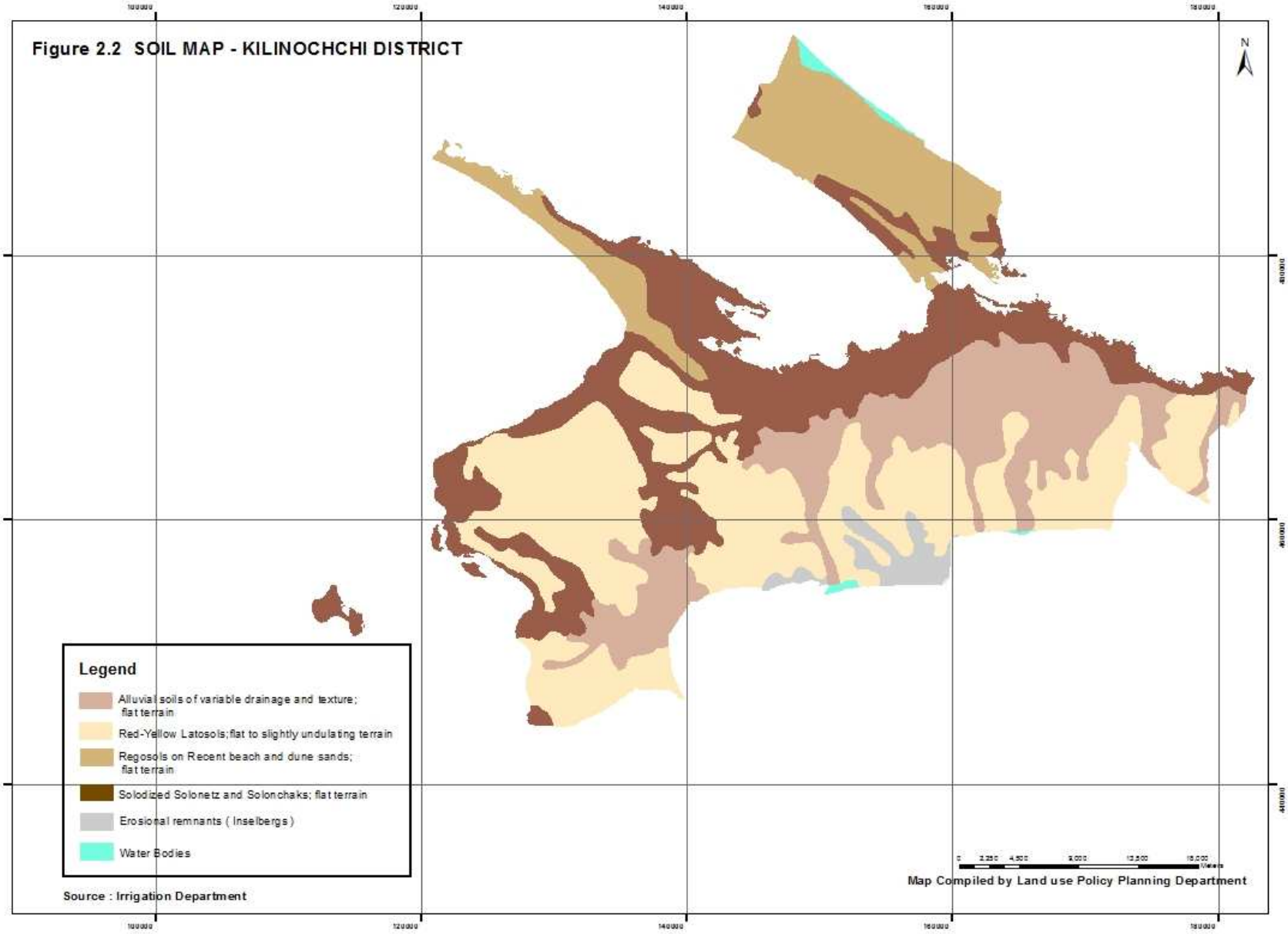


Figure 2.2 SOIL MAP - KILINOCHCHI DISTRICT
N
Legend
Alluvial soils of variable drainage and texture; flat terrain
Red-Yellow Latosols; flat to slightly undulating terrain
Regosols on Recent beach and dune sands; flat terrain
Solodized Solonetz and Solonchaks; flat terrain
Erosional remnants (Inselbergs)
Water Bodies
Source : Irrigation Department
Map Compiled by Land use Policy Planning Department

Table 2.2 Soil Types

Great Soil Group	Extent as a percentage
Red Yellow Latosols	36.36
Solodized Solonetz and Solonohaks;flat terrain	27.27
Alluvial soil of variable drainage and texture; flat terrain	19.88
Regosols on Recent beach and dune sands; flat terrain	14.25
Erosional remnants(Inselbergs)	2.24
Total	**100.00**

Source: Irrigation Department

The soil of the District is fertile and having enough minerals for the better growth of many crops.

2.3.3 Climate

Rainfall

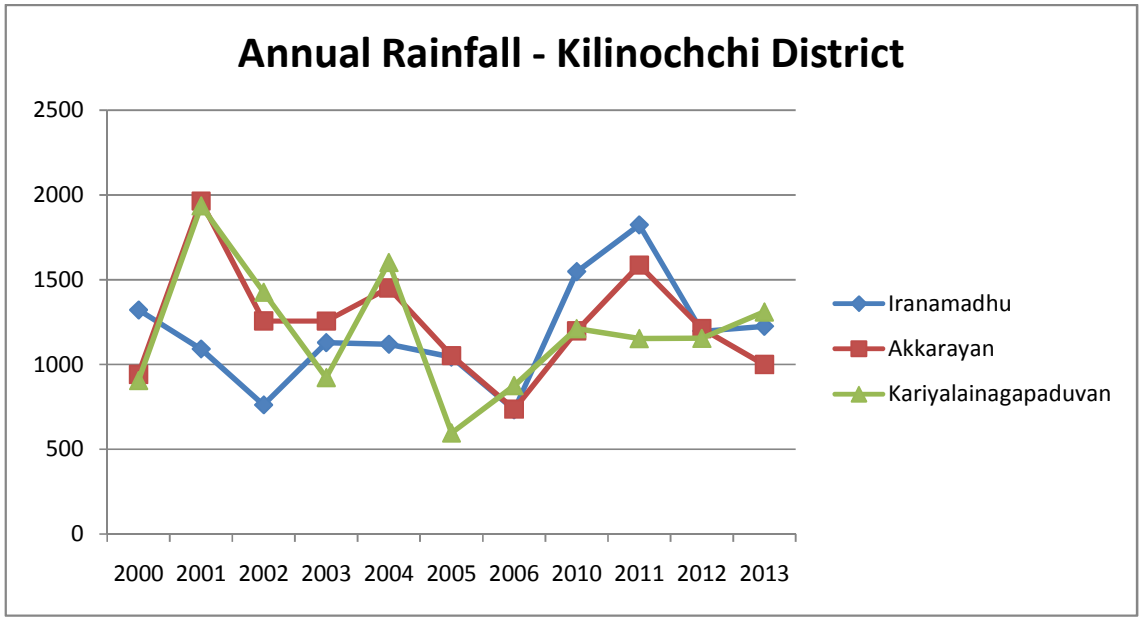
The average annual rainfall in this region is 1325mm and 75% of the rainfall receives during the period of September to December by North –East monsoon period. Annual rainfall in the district since 2000 to 2013 in given in the table 2.3 and Figure 2.3.

Table 2.3-Kilinochchi District - Annual Rainfalls (mm) from 2000 to 2013

Year	Rain gage Station		
	Iranamadhu	**Akkarayan**	**Kariyalainagapaduvan**
2000	1321.0	940.9	905.2
2001	1090.9	1963.6	1935.1
2002	760.8	1256.4	1425.7
2003	1127.8	1256.2	923.4
2004	1118.9	1451.7	1601.45
2005	1043.3	1051.4	596.5
2006	732.2	735.9	875.7
2010	1546.7	1198.2	1212.1
2011	1822.4	1586.4	1152.9
2012	1196.20	1211.5	1154.3
2013	1224.10	999.1	1310.2

Source: Irrigation Department.-Kilinochchi

Figure 2.3 Annual Rainfall – Kilinochchi District



Temperature

The annual temperature varies from 20°C to 30° C. The maximum temperature is recorded in June to August.

Agro-Ecology

Based on a combination of the characteristics of climate, soil and relief the district has been subdivided in to two regions. The major agro-ecological regions in the Kilinochchi district are Low Country Dry Zone Flat to Slightly Undulating (DL3) and Low Country Dry Zone Flat (DL4). DL3 region is covering an area of approximately 53.56% of the district and DL4 region is covering an area of approximately 46.44%.

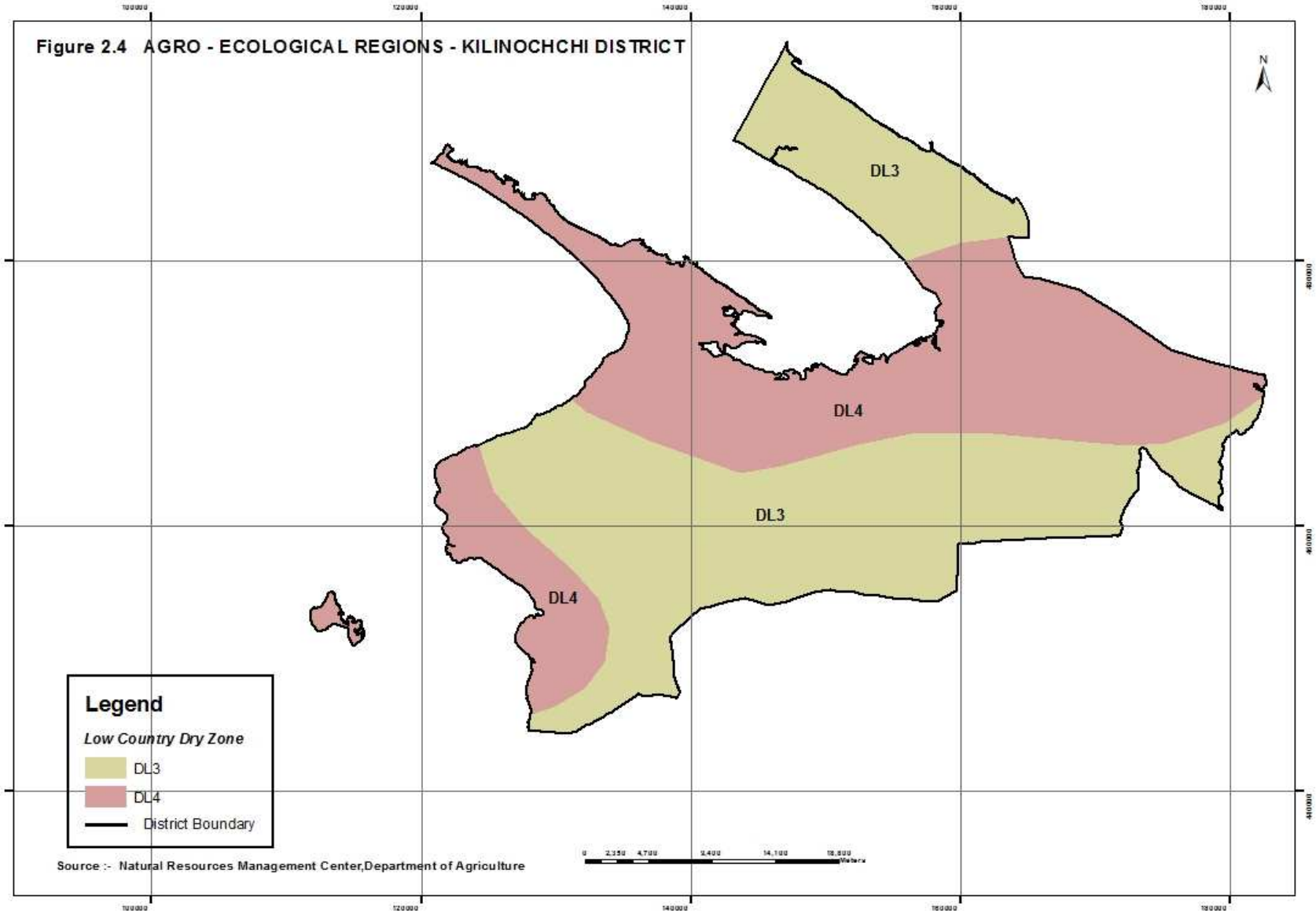


Figure 2.4 AGRO - ECOLOGICAL REGIONS - KILINOCHCHI DISTRICT
N
DL3
DL4
DL3
DL4
Legend
Low Country Dry Zone
DL3
DL4
District Boundary
Source :- Natural Resources Management Center,Department of Agriculture

2.3.4 Water resources

Kilinochchi District is being largely an agricultural District; Agriculture is particularly paddy mostly depends on the irrigation network for its development. The total land area of the of district is 133000ha and extent of the water bodies is 4430 ha. The district has 7 river basins, about 359 Natural ponds, 4 Major tanks and 5 Minor tanks. The major and medium tanks comes under the purview of Irrigation Department, while minor tanks and ponds under the Agrarian Development Department.

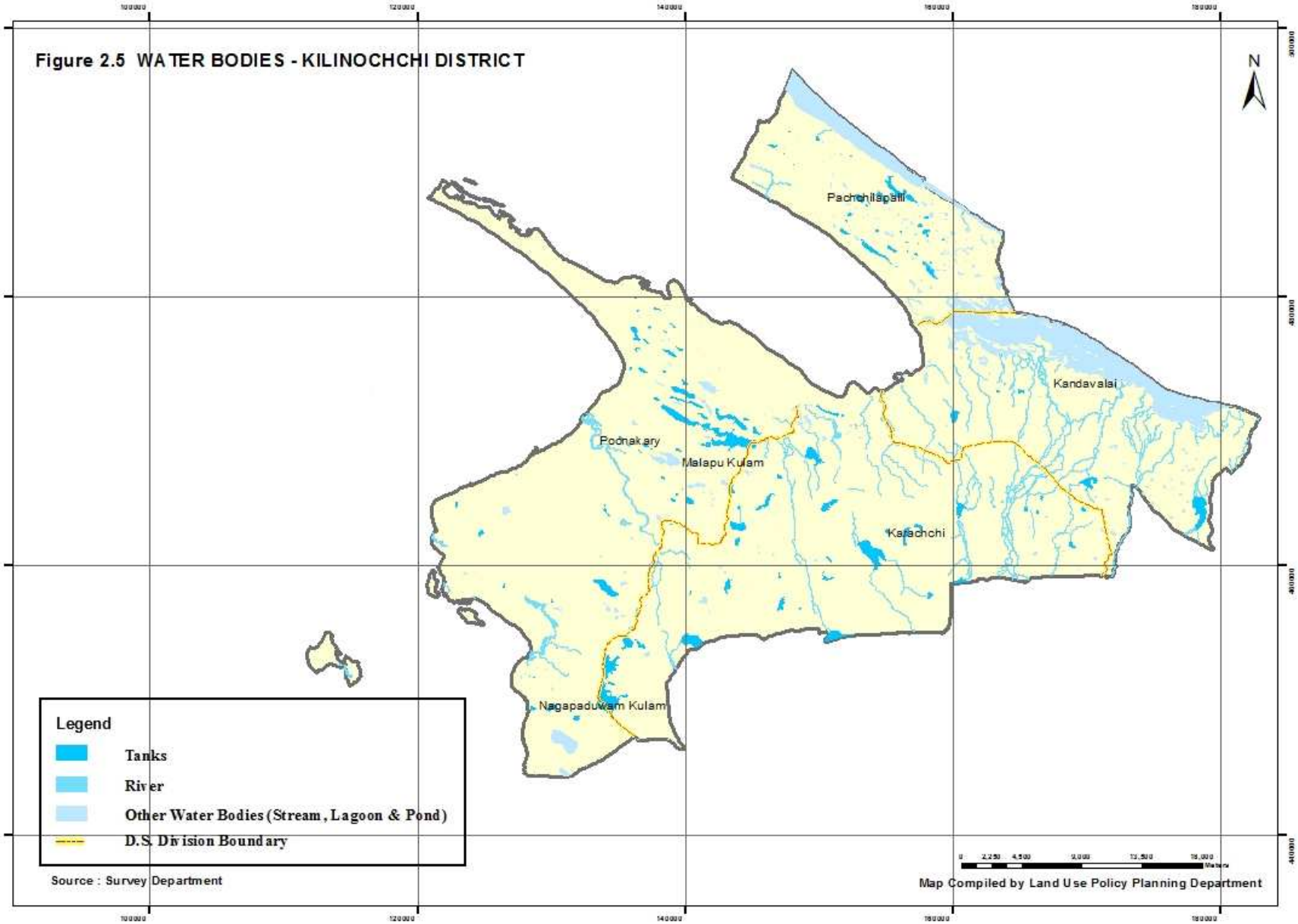


Figure 2.5 WATER BODIES - KILINOCHCHI DISTRICT
N
Pachchilapalli
Kandavalai
Podnakary
Malapu Kulam
Karachchi
Nagapaduvam Kulam
Legend
Tanks
River
Other Water Bodies (Stream, Lagoon & Pond)
D.S. Division Boundary
Source : Survey Department
Map Compiled by Land Use Policy Planning Department

2.4 Demographic structure

2.4.1 Population

Kilinochchi District's population was 112875 in 2011. Majority of the population is Tamil and minority is Sinhalese and Muslims.

Table 2.4 Population of Kilinochchi District by ethnic groups

Year	Tamil		Sinhalese		Muslim		Other		Total No.
	No.	%	No.	%	No.	%	No.	%	
1981 Census	89,197	97.33%	741	0.81%	1,567	1.71%	136	0.15%	**91,641**
2012 Census	111,210	98.52%	962	0.85%	678	0.60%	25	0.02%	**112,875**

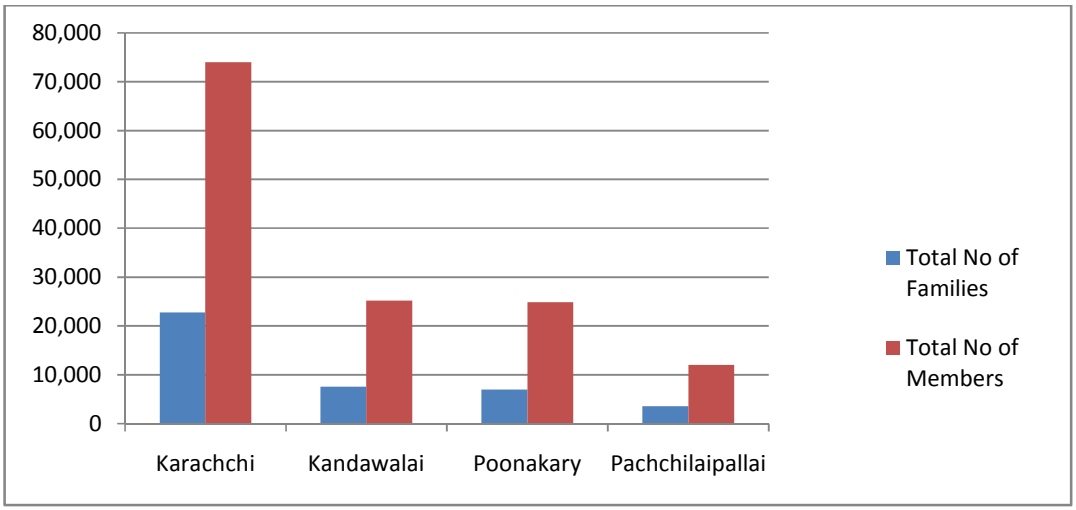
Source: Census of Population & Housing, 2011. Department of Census & Statistics

Table 2.5 Population by Divisional Secretariat Divisions (2013)

S.N	Divisional Secretariat Division	Total No of Families	Total No of Members
1	Karachchi	22,759	74,007
2	Kandawalai	7,547	25,177
3	Poonakary	6,951	24,876
4	Pachchilaipalli	3,586	12,020
	Total	40,843	136,080

Source: District Secretariat-Kilinochchi

Figure 2.6 Total No of Families/Members in each D.S. Division



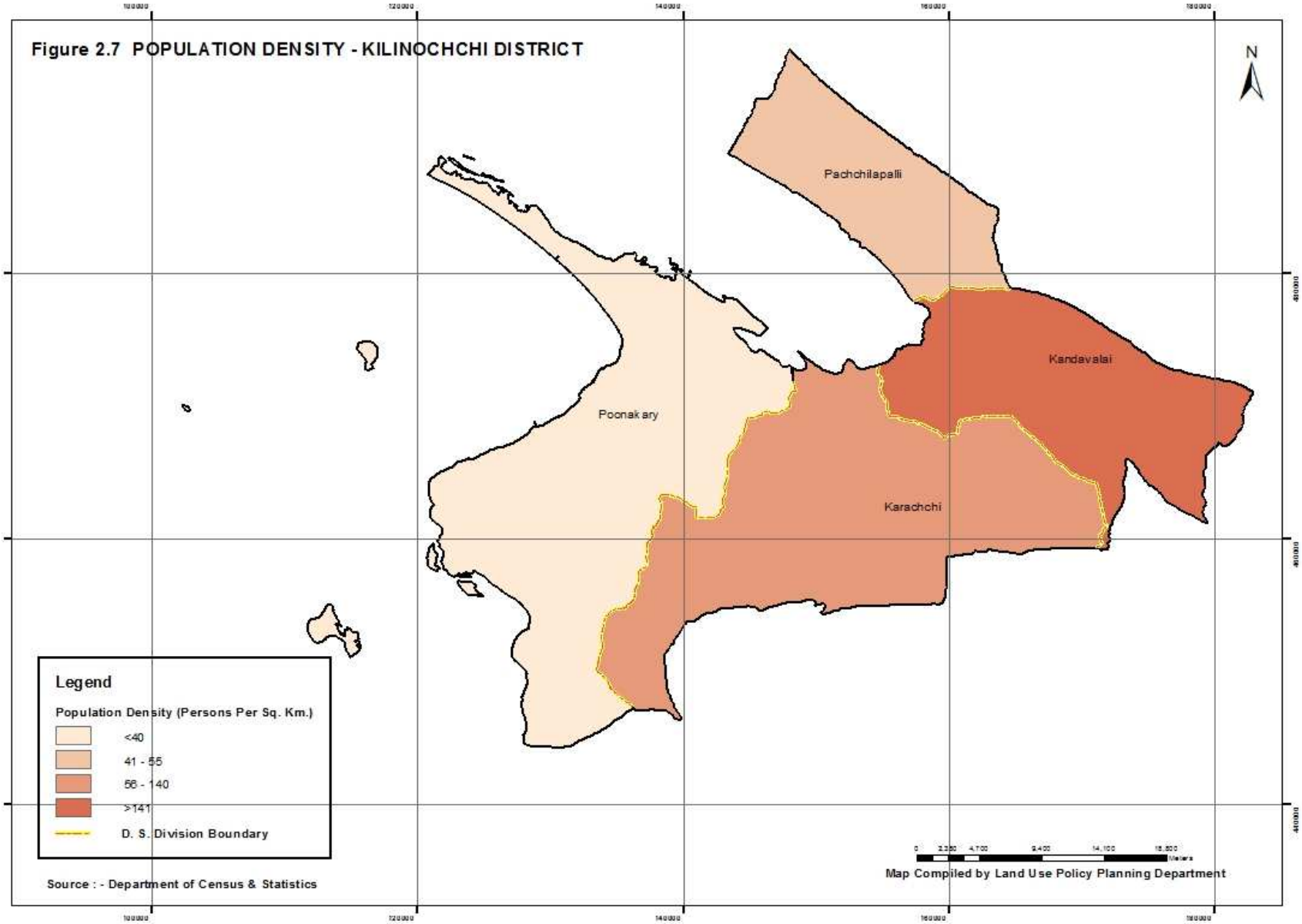


Figure 2.7 POPULATION DENSITY - KILINOCHCHI DISTRICT
N
Pachchilapalli
Kandavalai
Poonakary
Karachchi
Legend
Population Density (Persons Per Sq. Km.)
<40
41 - 55
56 - 140
>141
D. S. Division Boundary
Source : - Department of Census & Statistics
Map Compiled by Land Use Policy Planning Department

2.4.2 Labour Force

All persons age 15 years and above of either gender are identified as working age population by the Department of Census and Statistics (DCS). This population consists with two groups namely economically active and economically inactive. The economically active population called labour force comprises all persons of working age either employed of unemployed during the reference period.

The percentage of males and females under economically active population in the district is 78.3% and 21.7% respectively (Annual Bulletin, 2014)

2.4.3 Occupational Structure

The vast majority of economically active population is employed in agriculture and fishery. It is about 62 %. The second and third higher proportions of employed persons are occupied in the Government and Private sectors (Table 2.6).

Table 2.6 Type of occupations by D.S. Divisions in Kilinochchi District

N0	Type Occupation	Nature of occupation in DS Divisions				Total
		Karachchi	Kandawalai	Poonakary	Pachchilaipalli	
1	Government officers	1795	451	444	360	**3050**
2	Cooperative Employees	150	45	35	21	**251**
3	INGO s Employees	121	49	15	0	**185**
4	UN INGOs Employees	0	0	2	0	**2**
5	Local INGO s Employees	0	14	7	4	**25**
6	Banks Employees	47	10	2	0	**59**
7	Board Employees	3	12	0	0	**15**
8	Other institute Employees	65	490	8	39	**602**
9	Famers	4196	3694	2937	654	**11481**
10	Famer Labours	7421	1004	1640	372	**10437**
11	Fisherman	256	733	1519	173	**2684**
12	Private sector	1239	269	53	74	**1635**
13	Masons	665	279	137	115	**1196**
14	Carpenters	383	163	64	53	**663**
15	Welders	4	27	22	10	**63**
16	Plumbers	37	15	7	0	**59**
17	Electricians	163	48	20	2	**233**
18	Bar benders	0	5	4	0	**9**
19	Fitters	72	4	4	0	**80**
20	Painters	66	41	41	3	**151**
21	Goldsmith	26	3	3	0	**32**
22	Blacksmith	10	7	4	0	**21**
23	Tailors	413	116	93	38	**660**
24	Hair Dresses	52	9	13	17	**91**
25	Dry Cleaners	22	21	10	8	**61**
26	Toddy Tappers	158	70	130	0	**358**
27	Palmyra Food Producers	9	27	91	38	**165**
28	Handy Craft Producers	0	19	52	40	**111**
29	Motor Mechanic	181	35	15	21	**252**
30	Cycle Repairs	116	50	31	3	**200**
31	Winders	7	0	0	0	**7**
32	Food Product	59	0	13	11	**83**
33	Grained Makers	0	0	4	10	**14**
34	Beauticians	9	0	7	0	**16**
35	Printers	6	0	15	0	**21**
36	Textile Products	48	0	0	21	**69**
37	Others	4158	0	39	82	**4279**
	Total	**21960**	**7710**	**7481**	**2169**	**39320**

Source: District Secretariat -Kilinochchi

Table 2.7 Educational status of the unemployed population - Kilinochchi District

No	Ds Division	Employed		Educational status of the unemployed population							
				Ordinary Level		Advance Level		Graduate		Total	
		2012	2013	2012	2013	2012	2013	2012	2013	2012	2013
1	Karachchi	20498	21960	6	11	25	35	24	33	55	79
2	Kandawalai	4743	7710	10	12	5	5	4	4	19	22
3	Poonakary	7529	7481	1	5	1	1	2	2	4	12
4	Pachchilaipalli	2730	2169	2	3	1	1	2	2	5	10
Total		35500	39320	19	31	32	42	32	41	32	83

Source: Divisional Secretariats-Kilinochchi District

2.5 Infrastructure

2.5.1 Roads

The road network in the district has been developed during recent years. The figure 2.8 shows the road network of the district. Adjoining districts are connected by major roads and facilitate the transportation. Total length of A and B class roads is 136.62km. Total length of C and D class roads is 280.54 km. Kilinochchi has generally a well distributed network of roads and the total length of roads is about 416 km.

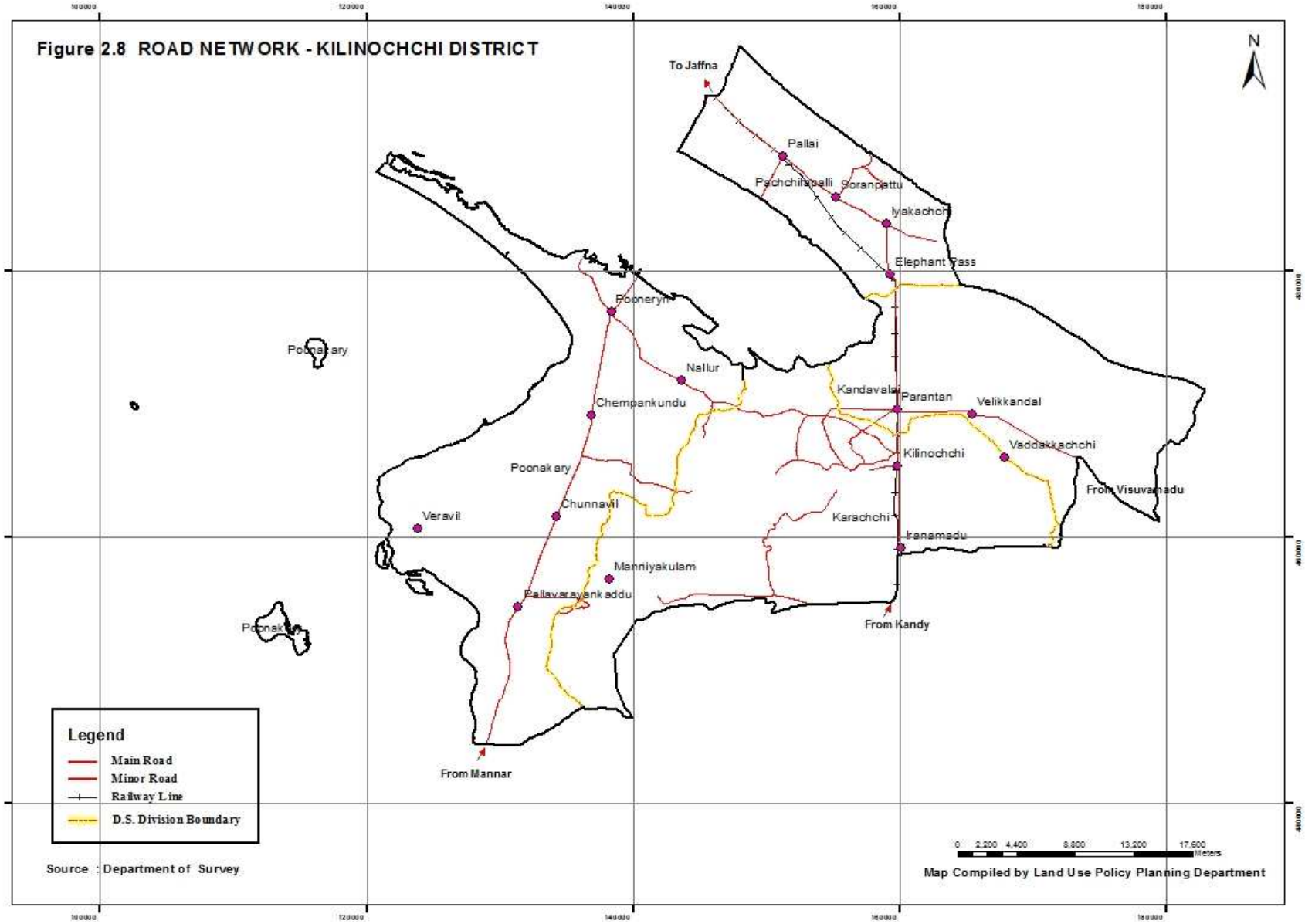


Figure 2.8 ROAD NETWORK - KILINOCHCHI DISTRICT
N
To Jaffna
Pallai
Pachchilaipalli
Soranpattu
Iyakachchi
Elephant Pass
Pooneryn
Nallur
Kandavalai
Parantan
Velikkandal
Chempankundu
Vaddakkachchi
Kilinochchi
Poonakary
From Visuvamadu
Chunnavil
Veravil
Karachchi
Iranamadu
Manniyakulam
Pallavarayankaddu
From Kandy
From Mannar
Legend
Main Road
Minor Road
Railway Line
D.S. Division Boundary
0 2,200 4,400 8,800 13,200 17,600
Meters
Source : Department of Survey
Map Compiled by Land Use Policy Planning Department

Table 2.8 Length of roads Maintained by Road Development Authority (2013)

No	Divisional Secretariat	Type of Road				Total Km
		"A" Class Km	"B" Class Km	"C" Class Km	"D" Class Km	
1	Karachchi	30.22	12.87	-	-	43.09
2	Kandawalai	16.89	-	-	-	16.89
3	Poonakary	38.62	12.87	-	-	51.49
4	Pachchilaipalli	20.32	4.83	-	-	25.15
Total		106.05	30.57	-	-	136.62

Source: Road Development Authority

Table 2.9 Length of roads Maintained by Provincial Road Development Authority (2013)

No	Divisional secretariat	Type of Road				Total Km
		"A" Class Km	"B" Class Km	"C" Class Km	"D" Class Km	
1.	Karachchi	-	-	97.58	5.08	102.66
2.	Kandawalai	-	-	44.78	-	44.78
3.	Poonakary	-	-	38.78	55.47	94.25
4.	Pachchilaipallli	-	-	5.23	33.62	38.85
Total		-	-	186.37	94.17	280.54

Source: Provincial Road Development Authority

2.5.2 Communication Facilities

The communication facilities include fixed telephones and different mobile networks. Postal facilities are provided through the main and sub post office network in the district.

Sri Lanka Telecom Private Limited (SLT) is providing most of the telecommunication facilities including connections with ADSL & PEO TV facilities to many areas.

The Postal Department provides the postal services including telemail and courier services in the District. Also, some private companies are engaged in telecommunication and courier services.

Table 2.10 Communication Facilities in Kilinochchi District

S.N	**Category**	**No.of Telephones**
1	Business	486
2	Residential	586
3	Official	266
4	CDMA phones	1236

Source: Sri Lanka Telecom Private Limited

Table 2.11 Exchange Facilities in Kilinochchi District

S.N	**Category**	Number of connections
1	IDD Facilities	947
2	SLT CLI	1288
3	Mega line	1288
4	E Mail	435
5	ADSL	988
6	Data	47
	Total	**4993**

Source: Sri Lanka Telecom Private Limited

2.6 Land Use and Land Cover

The total land use and land cover extent of Kilinochchi District is approximately 133195.3 ha, and nearly 24.6% from the total land area is covered by paddy. Land Use is depending mainly on the soil types and agro –ecology. Major land uses and their approximate extents are given in the Table 2.12.

Table 2.12 Land Use and their approximate extents - Kilinochchi District

Land Use Type	**Extent(ha)**
Built up land	451.0
Non-agricultural lands	6.8
Homesteads	352.0
Coconut	2687.0
Cashew	122.0
Palmyra	5428.0
Other Perennial Crops	28.0
Paddy	32771.0
Field Crops	1861.0
Forest	31042.0
Forest Plantations	110.0
Scrub	8665.0
Marsh	7247.0
Mangroves	1030.0
Grass lands	73.0
Water bodies	16753.0
Other	5227.0
Total	**133195.3**

Source: District Land Use Planning Office, Kilinochchi

Paddy, forest and water bodies are the major land use/land cover types in Kilinochchi District. Non-Agricultural lands include industrial areas. Palmyra, coconut and cashew are the major plantation crops. Water bodies include major tanks, minor tanks, rivers, streams, lagoons and natural ponds.

2.7 Existing Spatial Plans

2.7.1 National Level Plans

The National Physical Plan prepared by the national Physical Planning Department (NPPD) provides a broad frame work for the national development of the country. It is also the strategic document that outlines the vision of Sri Lanka in 2050[1]. Its role is to promote and regulate the integrated planning of economic, social, physical and environmental aspects of land and territorial waters of Sri Lanka. The main objectives of the National Physical Planning policy and the plan are to achieve economic development through the use of available resources of the country including agriculture, realizing a higher living standard for the people and the establishment of an independence economic status internationally[2].

Major themes of the revised draft national Physical Plan-2050(shown Below) are:(1) Fragile areas,(2) Protected Areas,(3) High density development zones,(4) Metro cities and (5)Village and service center networks(NPPD,2015). Since it is National Plan it does not adequately address the land use issues at the grass root levels.

2.7.2 Regional and Sub Regional Level Plans

According to the regional development plan Kilinochchi District falls within the Northern Provincial Plan. The proposed Northern Provincial Plan consists of many sectorial development plans and the proposed town development plans in Northern Regional Plans include Kilinochchi and it will be developed as the District Capital and it is expected that the population in fragile areas will voluntarily migrate to the proposed District Capital in future.

Rehabilitation of the rural settlement by developing infrastructure facilities have been identified under the Rural Settlement Development Project, based on the recommendation given in the physical plan of the of the Northern Province.

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[1]Anon, 2015.National Physical plan as the Framework for City of Tomorrow. World Cities Day 2015, Consultative Forum, NPPD, Ministry of Mega Polis and Western Development.

[2]www.nppd.gov.lk

Enhancing the educational facilities is another identified development project in the plan, rehabilitation of provincial level educational networks, is proposed in the plan.

Developments of industrial estates are also proposed in the Northern Provincial Plan, the locations are selected in Kilinochchi District for these projects. The Conservation of archaeological sites also identified in the plan.

According to the Northern Provincial Plan, Kilinochchi District preferred for infrastructure development, industrial and educational development projects.

2.7.3 Need for a Land Use Plan

The existing National level Plans do not address local land use issues in a detailed manner. Furthermore the present regional level plans primarily concerned with infrastructure development and issues in urbanized areas.

Therefore, it is crucial to prepare district land use plans to promote better land use especially in the war affected areas. This need was also recognized by the LLRC. The LLRC recommended that district land use plans has to be prepared as a decision making tool to ensure the protection of environment and bio-diversity, sustainable economic development, maintain the leisure and recreational standards, protection of cultural and archeological sites with a view to improving the quality of life of the present and future generations.

PART – 11

3. PLANNING APPROACH

Approaches to spatial planning vary considerably throughout the world, reflecting historical and cultural developments as well as geographical and economic conditions. There are four major approaches can be identified[1]. They are;

a) Regional economic planning approach

In this approach spatial planning is used as a policy tool to pursue wide social and economic objectives, especially in relation to disparities in wealth, employment and social conditions among different regions of the country[2].

b) Comprehensive integrated approach

A comprehensive integrated approach, where spatial planning is conducted through a systematic and formal hierarchy of plans. In this approach plans at lower levels will not contradict with the planning decisions at higher levels.

c) Land use management approach

In this approach, planning is a more technical discipline in relation to the control of land use. The recommendations or regulations will ensure the sustainable development.

[1]EU Commission 1997.The EU Compendium of Spatial Planning Systems and Policies. Brussels: European Union, Office for Official Publications of the European Communities. *http://commin.org/upload/Glossaries/European_Glossary/EU_compendium_No_28_of_1997.pdf*

[2]Williamson. I., S. Enemark, J. Wallace, A. Rajabifard. 2010. Managing the use of land. Land Administration for Sustainable Development. ESRI Press Academic, California.

d) Urbanism approach

In this approach key focus is on architectural and urban design through rigid zoning and land use codes and a wide range of laws and regulations,

In the preparation of District land Use Plan, basically land use management approach was adopted using the guidelines developed for land use planning by Food and Agricultural Organization (FAO) [3]

FAO has stated that Land use planning is the systematic assessment of land and water potential, alternatives for land use and economic and social conditions in order to select and adopt the best land-use options. Its purpose is to select and put into practice those land uses that will best meet the needs of the people while safeguarding resources for the future. The driving force in planning is the need for change, the need for improved management or the need for a quite different pattern of land use dictated changing circumstances.

FAO has indicated that several steps have to be followed in preparing a land use plan. The steps that are followed for the preparation of the plan are given below;

3.1 Study the present situation

The land use maps that were available have been prepared more than thirty years ago. In order to identify the changes that have taken place since then the existing land use maps were updated in 2015. Identification of land use issues was done simultaneously. Digital layers on the scale of 1:10,000 provided by the Survey Department were used as base maps. Entire district covers by 66 map sheets (Annex I). The new land use maps were prepared in two stages. In stage one existing land use maps were updated using recent satellite images. In stage two these maps prepared were subjected to field verification. The classification followed in preparing the land use map is given in the table 4.1.

[3]FAO, 1993.Guidelines for Land Use planning .Food and Agricultural Organization of the United Nations. Rome.

3.2 identification of land use issues

Field investigations revealed that the land uses could be divided into two broad categories i.e. (i) areas where changes are not required and existing land uses can be continued, (ii) areas where the land use changes or land use improvements are desirable. Plan mainly focuses on the second category. Areas where the land use changes or improvements are desirable because there are several land use issues pertaining to major land uses. These land use issues were identified and mapped by visual observations and by consulting land users. Land use issues are briefed in the section 5.2.The issues provide the basis for the preparation of the land use plan.

3.3 Formulation and validation of recommendations to address the issues

The desirable land use changes or improvements that were identified were discussed with the divisional level stakeholders, District Level Expert Group (DEG) and the National Level Expert Group (NEG) (The composition of these expert groups is given in the annex III & IV). The recommendations for land use changes or improvements validated by the above groups.

3.4 Preparation of the land use plan

The land use plan was prepared based on the information and data gathered from the field and considering the views, comments and recommendations made by the divisional level stakeholders, DEG and NEG.

4. LAND USE/LAND COVER OF THE DISTRICT

4.1 Introduction

Details of the present land use and land cover of the district are briefed in this section. In addition past situation of some of the major land use categories are given for more information. Present land use map were used to identify the land use issues and used as a base for the land use plane.

4.2 Land Use

Land use of the district (2015) is shown in the figure 4.1 and approximate extents of different land use categories are given in the table 4.1. Approximately 25.39% of the total land area is covered by paddy. Second dominant land use is natural forest that covers about 23.49%.

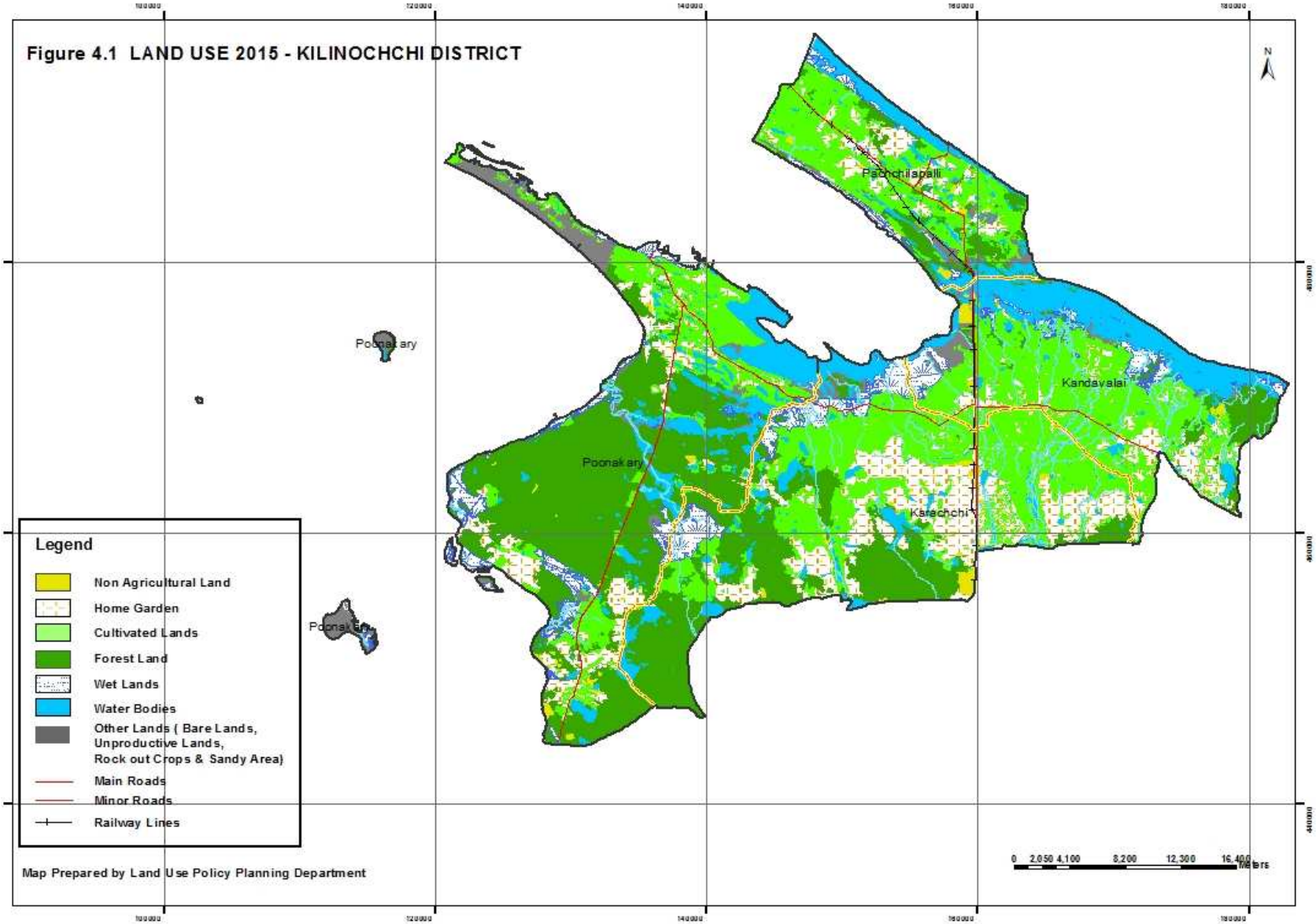


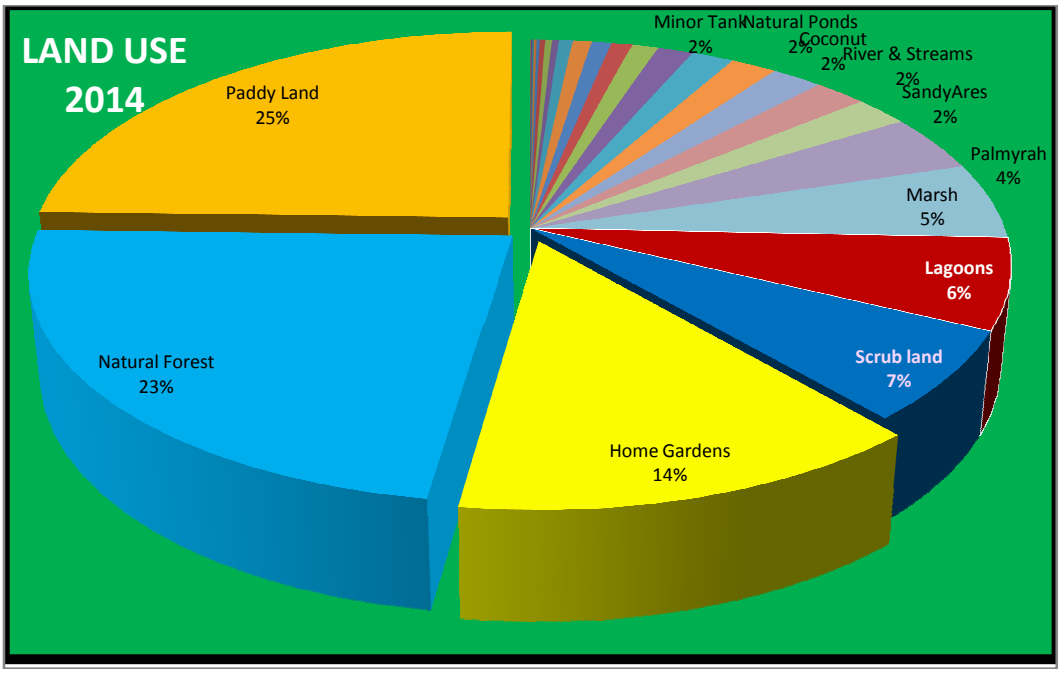
Figure 4.1 LAND USE 2015 - KILINOCHCHI DISTRICT
N
Poonakary
Kandavalai
Karachchi
Legend
Non Agricultural Land
Home Garden
Cultivated Lands
Forest Land
Wet Lands
Water Bodies
Other Lands (Bare Lands, Unproductive Lands, Rock out Crops & Sandy Area)
Main Roads
Minor Roads
Railway Lines
Map Prepared by Land Use Policy Planning Department
0 2,050 4,100 8,200 12,300 16,400 Meters

Table 4.1 Land use - 2014

Main category	Sub category I	Sub Category II	Extent (ha)	As a percentage from the total land area (%)
Built-up Lands	Service Centers		174.0	0.13
	Industrial Areas		277.0	0.21
Non-agricultural Lands	Aquaculture		6.8	0.10
Homesteads/Home gardens	Homesteads		352.0	0.20
	Home gardens		18142.0	13.60
Agricultural Lands	Perennial Crops	Coconut	2687.0	2.00
		Cashew	122.0	0.09
		Palmyra	5428.0	4.00
		Other	28.0	0.02
	Seasonal crops	Paddy	32771.0	25.39
		Field crops	1861.0	1.40
Forest Lands	Natural Forest		31042.0	23.49
	Forest Plantations		110.0	0.08
	Scrub Lands		8665.0	6.51
Wet Land	Marsh		7247.0	5.44
	Mangroves		1030.0	0.77
Grass Land			73.0	0.05
Water bodies	Tanks	Major Tanks	674.0	0.51
		Minor Tanks	1825.0	1.37
	River and Streams		2766.0	2.08
	Lagoons		8641.0	6.49
	Natural Ponds		2847.0	2.14
Other Lands	Barren lands		1381.0	1.04
	Sand Dunes		983.0	0.74
	Sandy Ares		2863.0	2.15
Total			**133195.3**	**100.00**

Source: District Land Use Planning Office-Kilinochchi

Figure 4.2 Land Use – Kilinochchi District (2014)



Source: District Land Use Planning Office- Kilinochchi

5. PROPOSED LAND USE PLAN

5.1 Introduction

Proposed land use plan has two broad categories i.e. (i) areas where changes are not required and existing land uses can be continued because of these areas do not have major land use issues, (ii) areas where the changes or improvements are desirable. The proposed land use plan indicates the changes or improvements that are desirable. The major categories of the proposed plan are given below;

Areas where the present use can be continued

- Presently protected/conserved areas
- Other areas where there are no major land use issues (Home gardens, Agricultural Areas, Built-up areas etc.)

Areas where changes or improvements are required

Additional areas recommended for protection

Unutilized lands (Proposed areas for future development)

- Suitable lands for housing
- Suitable lands for agriculture
- Suitable lands for expansion of service areas
- Suitable lands for tourism

Abandoned Paddy Lands

- Proposed for re-cultivation of paddy/appropriate uses

Abandoned settlements

- Proposed for resettlements

Underutilized Lands (where land use improvements are needed)

- Home garden
- Paddy
- Field crops
- Plantation crops

All abandoned lands shown in the proposed plan cannot be changed to previous use due to several reasons associated with these lands. These reasons may either be economic, social or environmental. However, some of the abandoned lands can be used to establish the previous use. The possible recommendations for the abandoned lands are given in Table 5.7, 5.8, 5.9.

5.2. MAJOR LAND USE ISSUES

Number of land use issues mainly related to the protection of the environment and land productivity can be identified in the district.

Six major land use issues were identified. These issues are given below;

a) Presence of "additional areas that need to be protected"

   Some areas in the district are protected by gazette notifications. The protected area network includes Forest, Wild life reserves and corridors, other state forest lands, Grass Lands, Archeologically and Historically significant places, Areas of natural beauty and natural features of exceptional value; Water bodies/Wet lands, Coastal Natural Habitats and Urban Forests/Urban Parks. However, there are areas or sites that are not presently protected in the district. They have to be protected in order to conserve the bio-diversity, environment and ensure the protection of the religious, cultural and archeological sites.

   Therefore, presence of additional areas that needs to be protected is considered as one of the land use issues.

b) Presence of low productivity agricultural lands

Low productivity agricultural lands (underutilized lands) include areas given over to highland crops (plantation crops and field crops) and paddy. Underutilized lands devoted to plantation crops include (1) crop lands where the proportion of land used is 70% or less, (2) croplands where intercropping is not practiced, (3) croplands where animal husbandry is not practiced though this is possible and (4) croplands where yield is below the average yield recommended by the research institutions and other relevant agencies. Underutilized lands devoted to field crops include (1) crop land where the proportion of land used is 70% or less and (2) cropland where yield is below the average yield recommended by the research institutions and other relevant agencies.

Low productivity paddy lands are categorized as (1) Lands where the yield per hectare is below the average of the district, (2) Lands that are cultivated only during one season.

c) Presence of low productivity home gardens

A home garden is the cultivated are surrounding the dwelling. The size of the home garden could vary from area to area and production is often for domestic consumption. The low productivity home gardens (underutilized) were identified using two criteria. (1) Home gardens where the proportion of land being used was 50%and (2) Home gardens where the Animal Husbandry is not practiced though this is possible.

d) Presence of abandoned settlements

There are settlements that were abandoned due to conflicts. These areas were identified and mapped.

e) Presence of abandoned agricultural areas

These lands were classified according to the previous use. This category includes both paddy and high land crops. However, in the Kilinochchi district under the abandoned agricultural lands category many paddy lands were identified.

f) Presence of unutilized lands

These lands are idle state lands coming under the jurisdiction of different institutions. e.g. Land Reform Commission, Forest Department and other government institutions. However, utilizing these lands for future development activities depends on the decision taken by the respective managing agencies to release these lands.

Table 5.1 and Figure 5.1 show the Major Land Use Issues in Kilinochchi District.

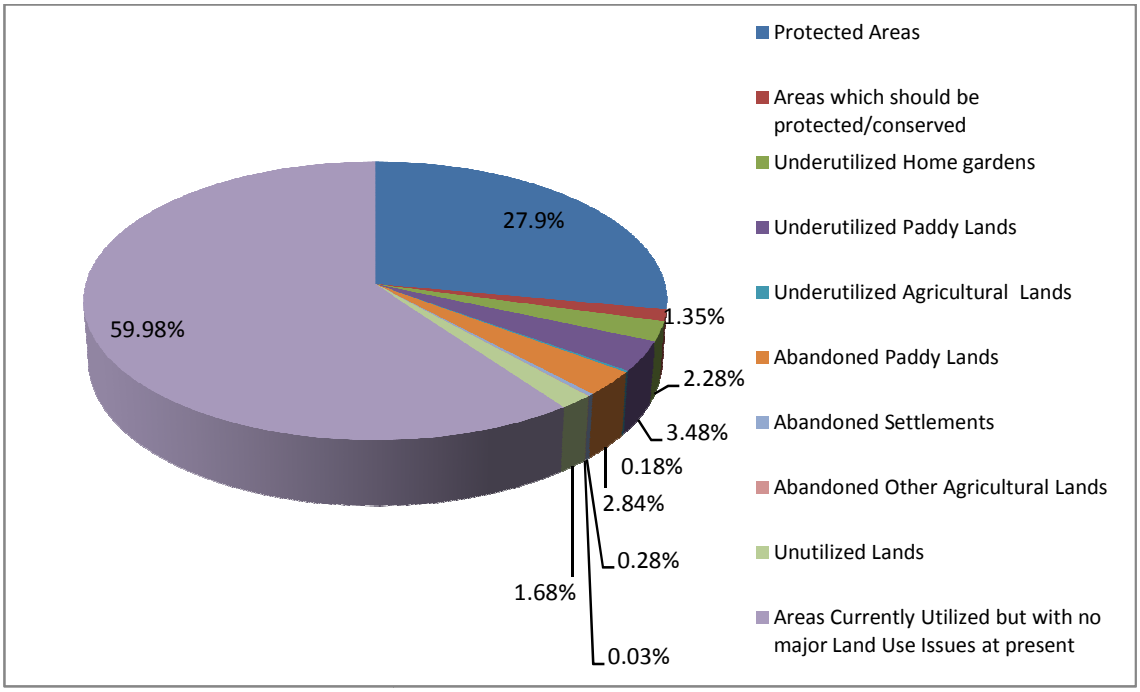
Table 5.1 Major Land Use Issues

Category		Land Extent (ha)	Percentage
Areas with issues	Protected Areas (with some issues)	37170.2	27.90
	Areas which should be protected/conserved	1806.5	1.35
	Underutilized Home gardens	3036.1	2.28
	Underutilized Paddy Lands	4581.5	3.48
	Underutilized Agricultural Lands	239.0	0.18
	Abandoned Paddy Lands	3785.2	2.84
	Abandoned Settlements	380.0	0.28
	Abandoned Other Agricultural Lands	52.79	0.03
	Unutilized Lands	2248.4	1.68
Areas without any major issues	Areas Currently Utilized but with no major Land Use Issues at present	79895.61	59.98
Total		**133195.3**	**100.00**

Source: District Land Use Planning Office-Kilinochchi

Protected areas with some issues (27.90%), underutilized paddy lands (3.48%) and abandoned paddy lands (2.84%) are the major land use issues in Kilinochchi District. 59.98 % from the total land area is currently utilized but no major Land Use issues at present.

Figure 5.1 Major Land Use Issues



5.3 Recommendations for Land Use Issues

The major Land Use Issues, Their locations, reasons for issues, recommendations to address these issues and Responsible agencies are discussed in the section.

5.3.1 Protected Areas

The entire area of the District cannot be used for the development purposes. Some areas are already protected due to various reasons. Hence, at the first step these areas have to be identified and separated out to facilitate the planning process. Reason for the identification of protected areas is to ensure the environmental sustainability and protect the cultural and religious values. Once the protected area is separated out, it is convenient to plan the remaining area of the District.

Presently protected areas are gazetted and managed by several agencies and the issues in these areas could be addressed by a “protected area management plan” prepared by the respective agencies. Therefore, the presently protected areas of the district are merely shown in the land use plan without giving any recommendations for the management of such areas.

Their locations are shown in Figure 5.2 .In addition to the type of protected areas, their approximate extents, location and respective managing agencies and some of the issues available in the presently protected area and recommendations are also given in the Table 5.2 for the information.

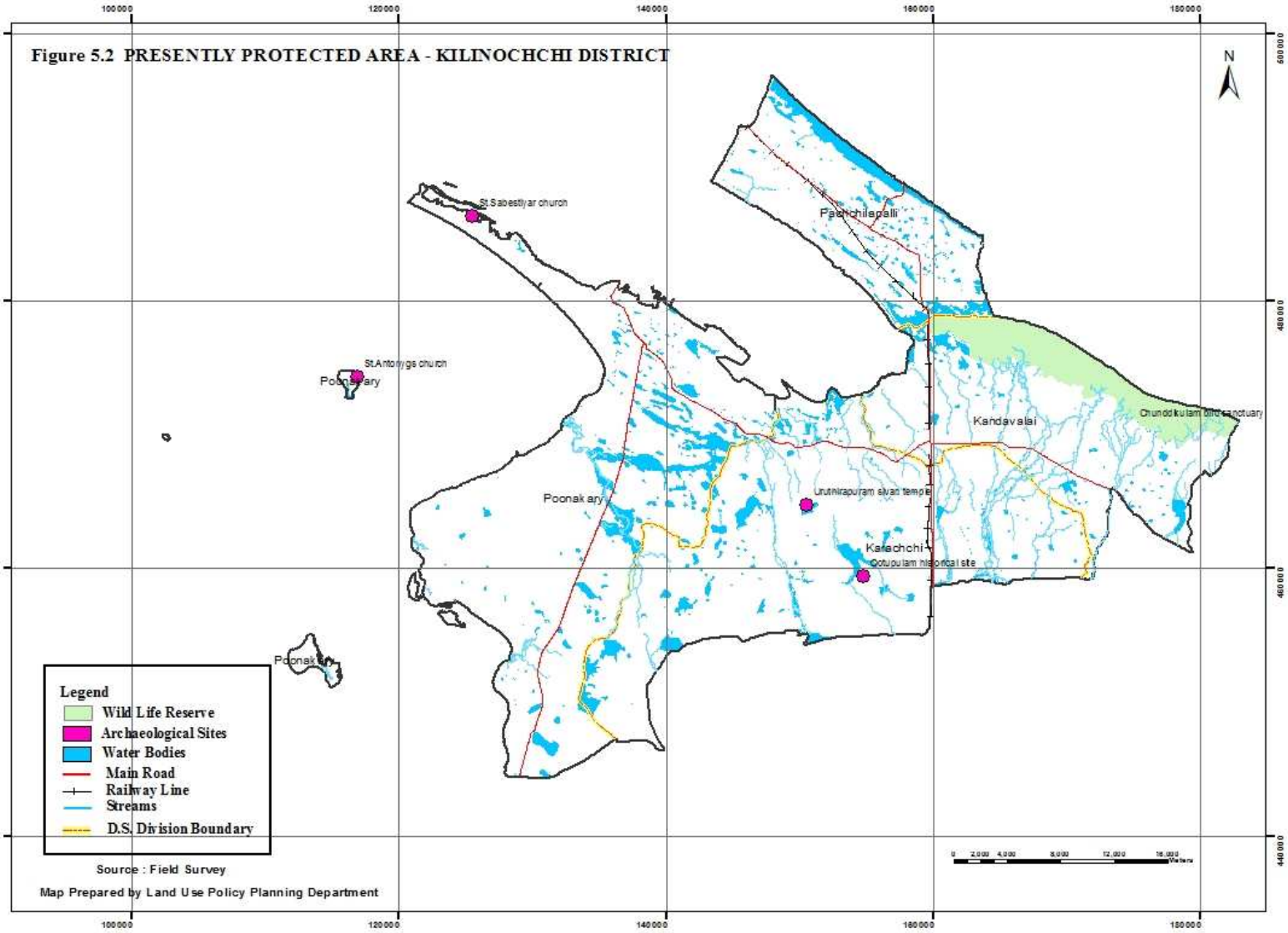


Figure 5.2 PRESENTLY PROTECTED AREA - KILINOCHCHI DISTRICT
N
St.Sabestiyar church
St.Antoniyar church
Poonakary
Kandavalai
Poonakary
Urutthirapuram sivan temple
Kilinochchi
Ootupulam historical site
Legend
Wild Life Reserve
Archaeological Sites
Water Bodies
Main Road
Railway Line
Streams
D.S. Division Boundary
Source : Field Survey
Map Prepared by Land Use Policy Planning Department

Table 5.2 Presently Protected Areas Issues and Recommendations

Type	Name of the location/area	D.S.Division	G.N.Division	Extent (Ha)	Geo-coordinates	Issues	Recommendations	Responsible Agencies
Forest Reserve	Iranaimadhu	Karachchi	Ramanathapuram Mayavanoor Vaddakachchi Ambalnager	9628.78	170501, 460068	Gravel Mining Deforestation	Strict Conservation	Forest Department, Central Environment Authority, D.S
	Akkarayan		Akkarayankulam Skanthapuram Konavil		145101, 457223	Gravel Mining Deforestation	Strict Conservation	Forest Department, Central Environment Authority, D.S
	Kilinochchi		Ponnager Malayalapuram Ootupulam Barathipuram Krishnapuram		153501, 455636	Gravel Mining Deforestation	Strict Conservation	Forest Department, Central Environment Authority, D.S
	Teravil	Kandawali	Punnaineeravi Piramanthanaru	1091.51	179959, 468071	Deforestation	Strict Conservation	Forest Department, Central Environment Authority, D.S

	Name of the location/area	D.S.Division	G.N.Division	Extent (Ha)	Geo-coordinates	Issues	Recommendations	Responsible Agencies
Forest Reserve	Chunnavil	Poonakary	Pallikkudah	19670.55	136303, 465161	-	-	-
	MandakallAru		Ponnaveli Kiranchchi Pallikudah Kollakurichchi		134385, 469989	-	-	-
	Nagapunduvan		Mulankavil Nachchikkudah Kariyalainagapaduvan Jeyapuram North Jeyapuram South		130681, 462846	-	-	-
	Pallai Reserve	Pachchilaipalli	Thampakamam Mullaiyaddy	656.16	154229, 488973	-	-	-
Wild Life Reserves	Chunddikulam bird sanctuary	Kandawali	Piramanthanaru Punnaineeravi Puliyampokkanai Kandawalai Uriyan	6126.0	176652, 472371	-	-	-

Type	Name of the location/area	D.S.Division	G.N.Division	Extent (Ha)	Geo-coordinates	Issues	Recommendations	Responsible Agencies
Archaeological and Historical Reserves	St.Sebastian Church	Poonakary	Gowtharimunai	0.5	125588, 486327	-	-	-
	St.Antony's Church	Poonakary	Iranaithivu	0.5	116856, 462846	-	-	-
	Ootupulam Historical Site	Karachchi	Ootupulam	Not Accessible	154824, 459406	-	-	-
	Uruthirapuramsivan temple	Karachchi	Uruthirapuram	1.2	150558, 464770	-	-	-

5.3.2 Additional areas recommended for protection and conservation

These areas have to be protected to ensure the sustainable existence of religious, cultural, archeological sites and the protection of environment and the bio-diversity. Further field investigations by the relevant Institutions are needed to confirm the recommendations given in this plan. The locations of the areas that need to be protected are given in the Figure 5.3 The information including the recommendations on additional areas that need to be protected is given in the Table 5.3

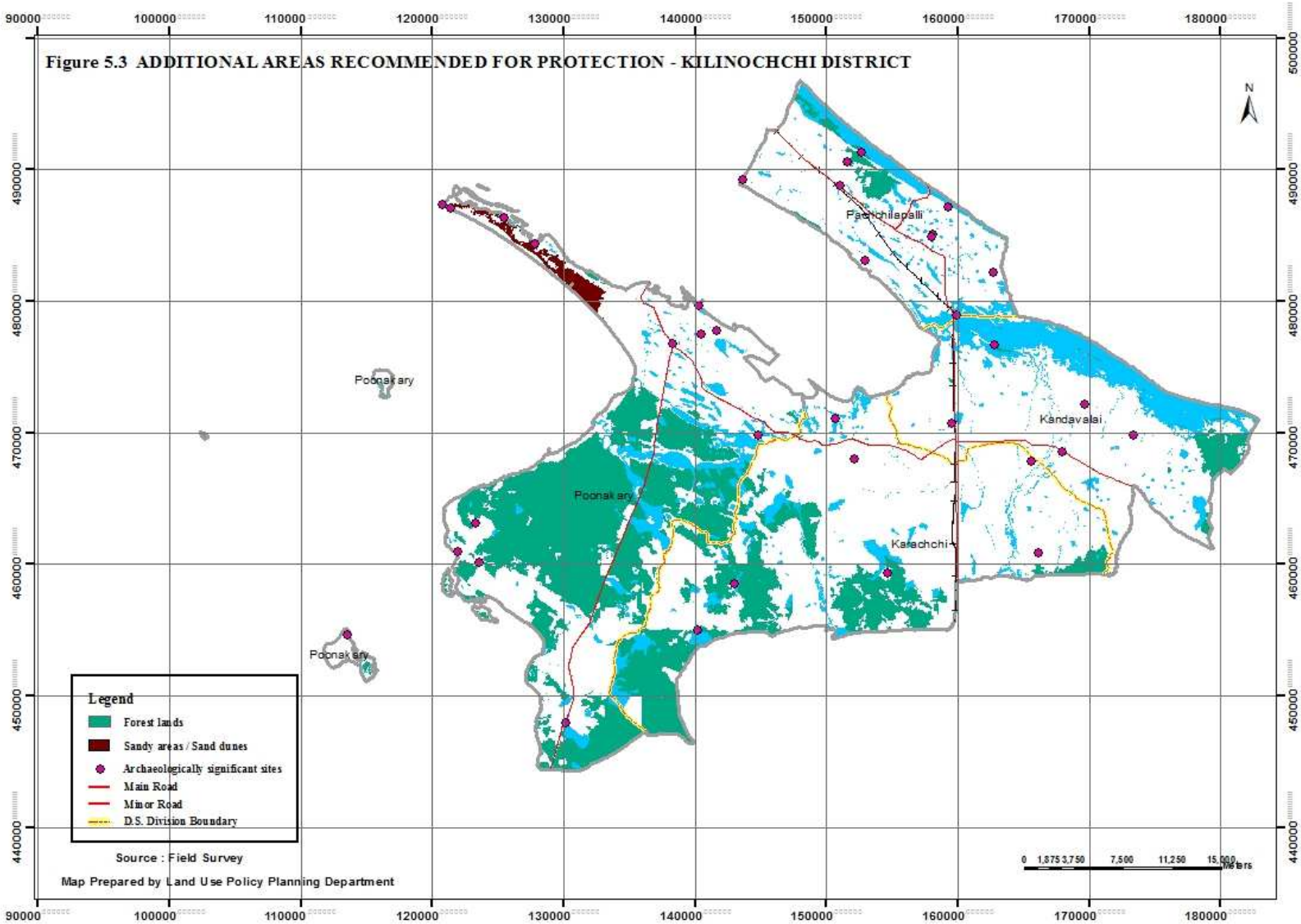


Figure 5.3 ADDITIONAL AREAS RECOMMENDED FOR PROTECTION - KILINOCHCHI DISTRICT
N
Pachchilaipalli
Poonakary
Kandavalai
Poonakary
Karachchi
Poonakary
Legend
Forest lands
Sandy areas / Sand dunes
Archaeologically significant sites
Main Road
Minor Road
D.S. Division Boundary
Source : Field Survey
Map Prepared by Land Use Policy Planning Department
0 1,875 3,750 7,500 11,250 15,000 Meters
90000
100000
110000
120000
130000
140000
150000
160000
170000
180000
440000
450000
460000
470000
480000
490000
500000

Table 5.3 Additional areas recommended for protection

Type	Name of the location/area	G.N.Division	Geo-coordinates	Extent (ha)	Ownership	Reasons for protection and conservation	Responsible Agency
Areas of Archaeological and Historical value	Anaivilunthankulam	Anaivilunthan	143045,458475		State	Archeological site	Archaeology Department
	Kuveny Fort	Kovilvayal	162752,482189	0.4	State	Archeological site	Archaeology Department
	Elephant Pass Fort	Kovilvayal	159942,478952	0.9	State	Archeological site	Archaeology Department
	Light House	Thambakamam	152970,483103		State	Archeological site	Archaeology Department
	Kalmunai Light house	Gowtharimunai	120759,487395	0.9	State	Archeological site	Archaeology Department
	Poonakary Fort	Madduvilnadu East	138351,476820	1.1	State	Archeological site	Archaeology Department
	Solar period Temple	Gowtharimunai	127874,484400	-	State	Archeological site	Archaeology Department
	Jetty - Kilaly	Kilaly	143324,488913	-	State	Historical site	Archeology Department
	Nagathevanthurai Jetty	Gnanimadam	140350,479632	562m	State	Historical site	Archeology Department

	Name of the location/area	G.N.Division	Geo-coordinates	Extent (ha)	Ownership	Reasons for protection and conservation	Responsible Agency
Areas of Archaeological and Historical value	Velikandal Tile Tower	Periyakulam	168006,468572		State	Historical site	Archeology Department
	ThadduvankoddiKannaki Amman Kovil	Thadduvankoddi	162799,476702	7.4	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Puliyampokkaninagathampiran Kovil	Puliyampokkan	173372,469858	8.4	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Settrukandy Amman Kovil	Murasumodai	165577,467806	0.8	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Vanerikulam Kulakaddu Pillaiyar Temple	Vanerikulam	140195,455011	0.1	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Ootupulam Kodai Athivinayakar temple	Ootupulam	154683,459300	1.1	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Kondadiyan Temple	Uruthirapuram North	150737,471078	-	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Porikadavai Amman Temple	Uruthirapuram North	152150,468013	2.0	Temple Land	Historical and Religious Site	Provincial Cultural Department

	Name of the location/area	G.N.Division	Geo-coordinates	Extent (ha)	Ownership	Reasons for protection and conservation	Responsible Agency
Areas of Archaeological and Historical value	St.Micheal Church	Kilaly	143665,489228	0.04	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Thiriyai Amman Kovil	Mukavil	159326,487193	0.5	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Malvil Krishnan Kovil	Mukavil	158138,485108	0.7	Temple Land	Historical and Religious Site	Provincial Cultural Department
	St.Andrews Church	Palai Town	151066,488757	0.03	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Yakappar Church	Kilaly	143247,489221	0.1	-	Historical and Religious Site	Provincial Cultural Department
	Iranaimatha Church	Iranaithivu	113585,454673	0.9	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Selvayogasithivinayagar	Chadiyakurichchi	130211,447949	0.7	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Mannithalai Hindu Temple	Gowtharimunai	1254498,486369	0.5	Temple Land	Historical and Religious Site	Provincial Cultural Department

	Name of the location/area	G.N.Division	Geo-coordinates	Extent (ha)	Ownership	Reasons for protection and conservation	Responsible Agency
Areas of Archaeological and Historical value	Kandasamy Kovil	Madduvilnadu	141701,477740	0.2	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Thikiripillaiyarkovil	Kalmunai	140520,477486	0.7	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Mellai Amman	Chadiyakurichchi	144804,469839	0.5	Temple Land	Historical and Religious Site	Provincial Cultural Department
	St.Anne's Church	Ponnaveli	121925,460916	1.2	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Ponnaveli Sivan kovil	Ponnaveli	123317,463133	1.1	Temple Land	Historical and Religious Site	Provincial Cultural Department
	Vellipallamvinayagarkovil	Mulankavil	1236158,460177	1.0	Temple Land	Historical Religious Site	Provincial Cultural Department
Wild Life Areas which are not presently protected	Vannerikulam Bird Sanctuary	Vannerikulam	141306,454483	-	State	Migratory Birds	Wild life Conservation Department
	Bird Sanctuary	Thambakamam	152732,491309	-	State	Migratory Birds	Wild life Conservation Department

Type	Name of the location/area	G.N.Division	Geo-coordinates	Extent (ha)	Ownership	Reasons for protection and conservation	Responsible Agency
Environmentally Sensitive Areas	Baobab tree	Ponnaveli	121702,462285	-	State	Environmentally sensitive area	Central Environmental Authority
	Gowtharimunai Sand dunes	Gowtharimunai	128709,483784	9.8	State	Environmentally sensitive area	Central Environmental Authority
Water bodies which are not presently protected	Mammil Kulam	Vaddakachi	166148,460898	15.1	State	Historical value	Archaeology Department
	Malvil Kulam	Mukavil	158016,484869	13.1	State	Historical value	Archaeology Department
	Thampakamam Kulam	Thambakamam	151631,490582	2.7	State	Historical value	Archaeology Department
Wet lands which are not presently protected	Mangroves	Gowtharimunai	121442,487059	53.0	State	Environmentally sensitive area	Central Environmental Authority
	Mangroves	Paramankirai	132264,481955	38.8	State	Environmentally sensitive area	Central Environmental Authority

	Name of the location/area	G.N.Division	Geo-coordinates	Extent (ha)	Ownership	Reasons for protection and conservation	Responsible Agency
Wet lands which are not presently protected	Mangroves	Gowtharimunai	123195,488073	2.2	State	Environmentally sensitive area	Central Environmental Authority
	Mangroves	Ponnaveli	123875,457755	192.8	State	Environmentally sensitive area	Central Environmental Authority
	Mangroves	Nachchikudah	128364,449778	5.0	State	Environmentally sensitive area	Central Environmental Authority
	Mangroves	Pallikkudah	135408,474133	10.4	State	Environmentally sensitive area	Central Environmental Authority
	Mangroves	Mugamalai	148446,495140	78.6	State	Environmentally sensitive area	Central Environmental Authority
	Mangroves	Ithavil	147846,493614	84.9	State	Environmentally sensitive area	Central Environmental Authority

	Name of the location/area	G.N.Division	Geo-coordinates	Extent (ha)	Ownership	Reasons for protection and conservation	Responsible Agency
Wet lands which are not presently protected	Mangroves	Arasarkerny	150675,492871	44.5	State	Environmentally sensitive area	Central Environmental Authority
	Mangroves	Tampakamam	152631,491306	35.4	State	Environmentally sensitive area	Central Environmental Authority
	Mangroves	Allipalai	148407,486221	47.8	State	Environmentally sensitive area	Central Environmental Authority
	Marsh	Ponnaveli	122628,458213	916.6	State	Environmentally sensitive area	Central Environmental Authority
	Marsh	Pallikkudah	134441,472882	76.5	State	Environmentally sensitive area	Central Environmental Authority
	Marsh	Paramankirai	135576,480920	124.3	State	Environmentally sensitive area	Central Environmental Authority
	Marsh	Uruthirapuram North	150480,471532	23.8	State	Environmentally sensitive area	Central Environmental Authority

5.3.3 Underutilized Home gardens

There are two types of home gardens available in the district i.e. (1) home gardens where the present status are satisfactory and can be continued with the existing practice without much improvement, (2) home gardens which are underutilized due to various reasons and could be improved. The level of the underutilization will vary with one to another. Detailed survey is necessary to prepare an implementation program to intensify the land use of the home gardens.

There are several reasons why these home gardens are underutilized. The major reasons were:

a) Water scarcity
b) Poor drainage systems
c) Absence of land owner
d) Infertile soil
e) Inadequate technical know-how

In general, majority of the home gardens are underutilized due to one or more of the above reasons.

The locations of the home gardens with the issues are given in the Figure 5.4 and the divisions in which these home gardens are found, total extent, reasons for underutilization and recommendations are given in the Table 5.4

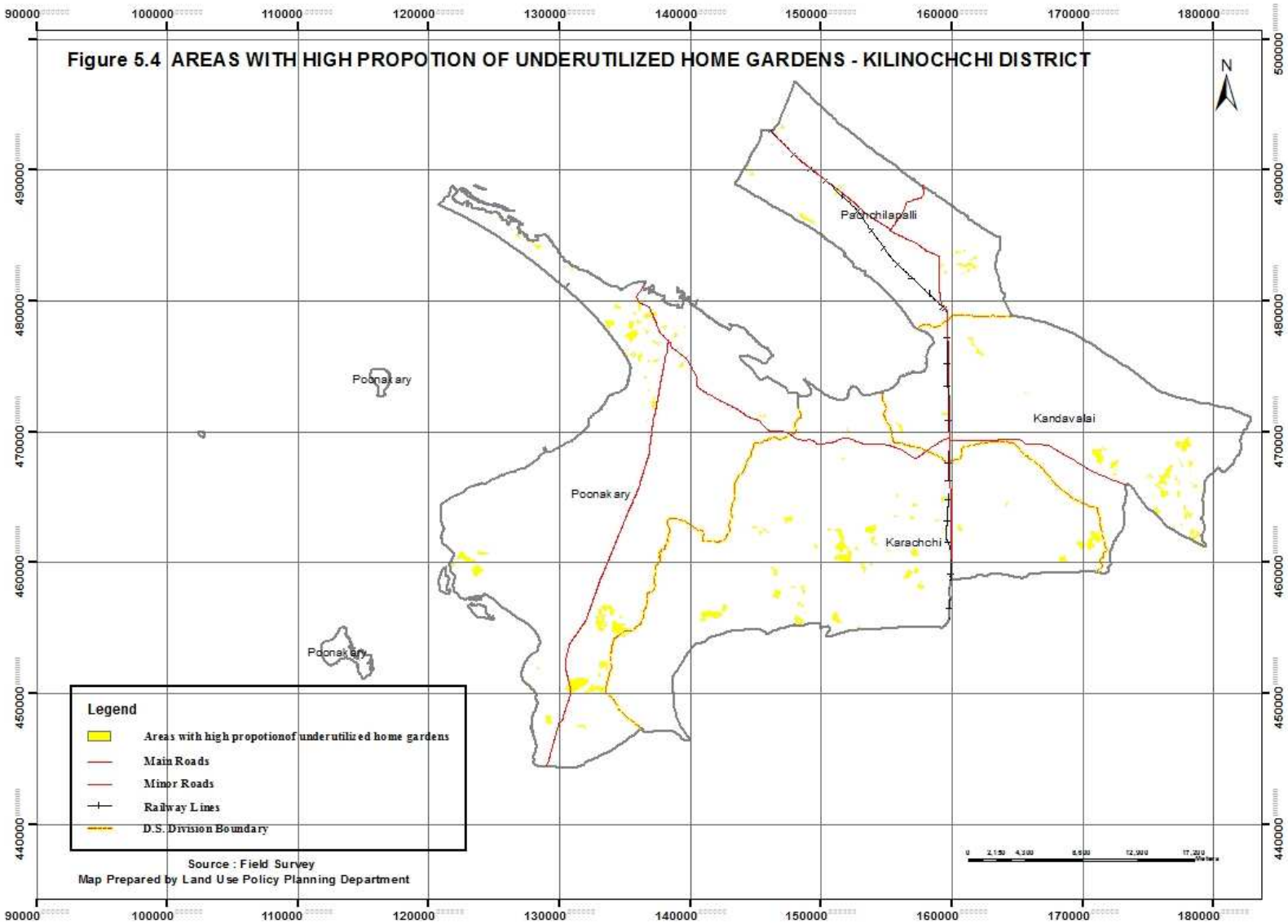


Figure 5.4 AREAS WITH HIGH PROPOTION OF UNDERUTILIZED HOME GARDENS - KILINOCHCHI DISTRICT
N
Pachchilapalli
Poonakary
Kandavalai
Poonakary
Karachchi
Poonakary
Legend
Areas with high propotionof underutilized home gardens
Main Roads
Minor Roads
Railway Lines
D.S. Division Boundary
Source : Field Survey
Map Prepared by Land Use Policy Planning Department
90000
100000
110000
120000
130000
140000
150000
160000
170000
180000
440000
450000
460000
470000
480000
490000
500000

Table 5.4 Underutilized Home gardens

D.S Division	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Vannerikulam KN/01	58.7	134951, 454565	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Anaivilunthan KN/02	101.6	141046, 456046	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Kannakaipuram KN/03	41.4	146468, 459335	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
	Skandapuram KN/04	86.2	146803, 457546	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
Karachchi	Akkarayankulam KN/05	43.8	151126, 455683	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Konavil KN/06	210.6	151649, 460355	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Malayalapuram KN/09	58.4	156679, 459136	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Ambalkulam KN/14	22.2	157257, 460714	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Ratnapuram KN/22	12.6	160647, 462620	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil Inadequate technical know- how	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Kanagapuram KN/26	15.5	156960, 463401	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Thirunagar North KN/28	7.7	159257, 464838	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Kaneshapuram KN/29	7.6	157050, 464342	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Jeyanthinagar KN/30	7.2	156867, 463628	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Periyaparanthan KN/31	4.9	155816, 465089	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Sivanagar KN/35	50.5	151291, 462421	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Ootupulam KN/36	45.8	153771, 460347	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Puthumurippu KN/37	49.8	153786, 462537	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Mayavanoor KN/40	23.8	168492, 460173	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Ramanathapuram KN/41	71.4	171059, 461870	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Mavadiyamman KN/42	21.0	169928, 461333	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Department, Agrarian Development Department, D.S, P.S, LUPPD
Kandawalai	Uriyan KN/49	1.7	165867, 472950	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Kumarapuram KN/43	13.9	156150, 470311	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Thadduvankoddy KN/47	16.3	162154, 476054	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Kandawalai	Tharmapuram East KN/55	26.6	173293, 466743	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Tharmapuram West KN/54	30.0	172336, 467526	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Puliyampokkanai KN/56	60.6	171205, 468193	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Korakkankaddu KN/48	116.0	161984, 470958	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Kandawalai	Piramanthanaru KN/58	170.0	178591, 465808	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Punnaineeravi KN/57	331.2	176183, 465206	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
Poonakary	Nallur KN/59	8.3	145509, 471178	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Gnanimadam KN/63	2.1	138004, 477974	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Poonakary	Pallikkudah KN/65	17.7	137127, 472119	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Madduvilnadhu East KN/66	120.2	135786, 477484	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Gowtharimunai KN/68	32.4	131015, 482436	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Jeyapuram North KN/69	66.5	133620, 456387	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Poonakary	Jeyapuram South KN/70	66.2	134600, 455252	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Kariyalainagapaduvan KN/71	149.6	131557, 450816	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Pallavarayankadhu KN/72	175.4	133362, 452183	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Mulankavil KN/73	207.9	131763, 447515	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Poonakary	Nachchikudah KN/74	40.9	129287, 449707	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Kiranchi KN/75	77.6	127275, 456439	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Ponnaveli KN/76	160.8	123768, 459301	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
Pachchilai palli	Kilaly	11.7	144345, 490283	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Pachchilai palli	Thampakamam	5.0	151185, 490826	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Mukavil	10.0	158293, 484243	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
Pachchilai palli	Allipalai	26	148986, 486153	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Kovilvayal	140	161147, 482718	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

D.S Division	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Pachchilai palli	Mukamalai	5.6	147009, 493257	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic practices	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD
	Iyakachchi	5.9	159101, 482678	Water Scarcity Poor drainage systems, Absence of land owner Infertile soil	Promote water conservation and attend to irrigation problems. Develop infrastructure facilities Conduct awareness program to introduce proper agronomic	Agriculture Department, Agrarian Development Department, D.S, P.S, LUPPD

5.3.4 Underutilized Agricultural Lands

The issues of paddy lands, plantation crops and field crops are presented separately.

5.3.4.1 Underutilized Paddy Lands

Most of the paddy lands were cultivated only during one season due to either lack of water, mainly due to the collapse of irrigation structures or excess water (inundation) due to the lower elevation. Some of the paddy lands may degrade resulting low yield. In addition there are several socio-economic reasons for low yield e.g. high labour costs, shortage of labour, high cost of inputs etc. These factors will vary from farmer to farmer. The locations of underutilized paddy lands are shown in Figure 5.5 and the information about the underutilized paddy lands are given in the Table 5.5

Some of the paddy lands could be improved by implementing the recommendations given in the plan. Some situations have to be studied further to determine the feasibility of the projects. However, the plan can be used to identify the areas that could be improved to increase the production.

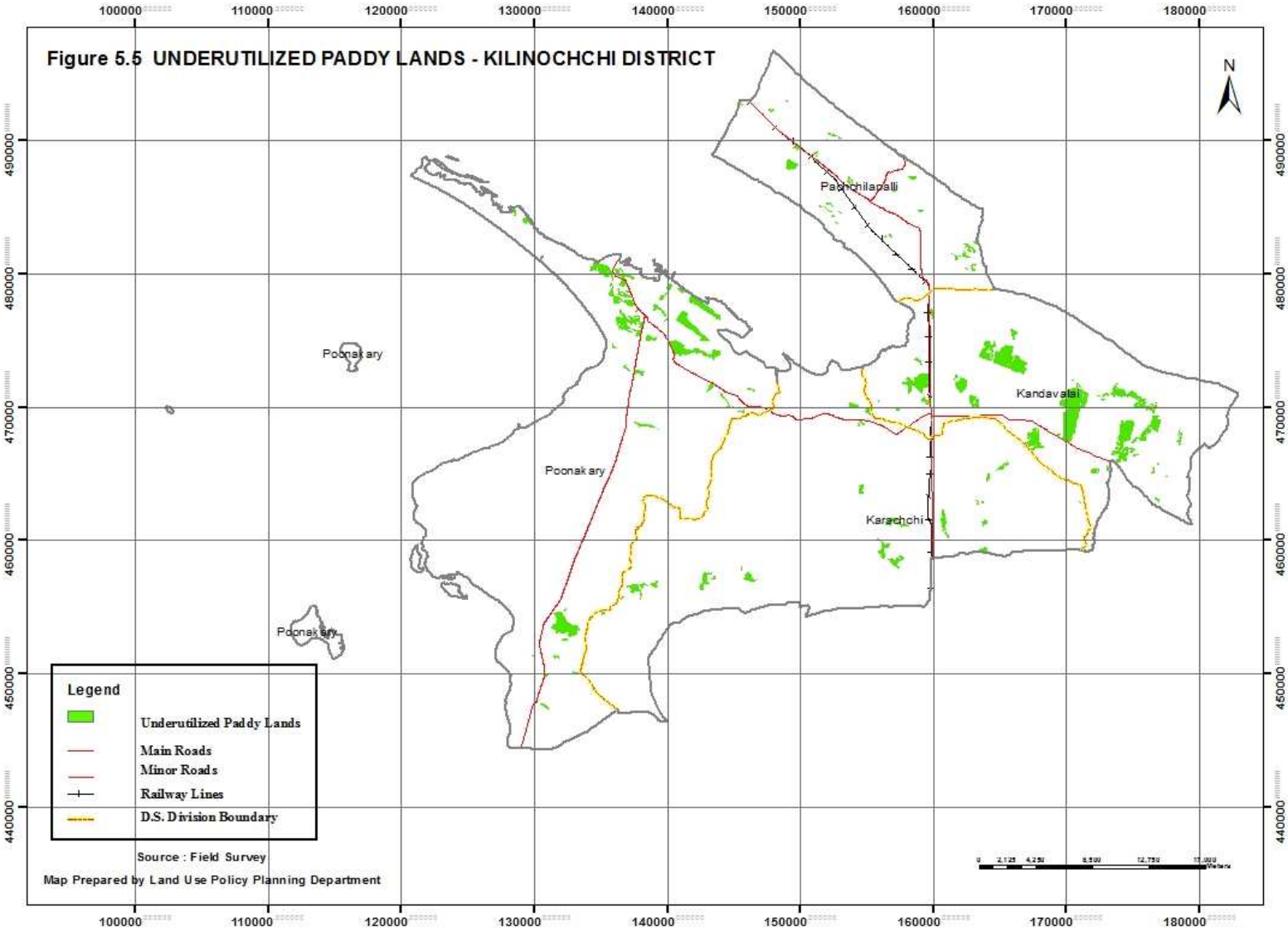


Figure 5.5 UNDERUTILIZED PADDY LANDS - KILINOCHCHI DISTRICT
N
Pachchilapalli
Poonakary
Kandavalai
Karachchi
Legend
Underutilized Paddy Lands
Main Roads
Minor Roads
Railway Lines
D.S. Division Boundary
Source : Field Survey
Map Prepared by Land Use Policy Planning Department
100000
110000
120000
130000
140000
150000
160000
170000
180000
440000
450000
460000
470000
480000
490000

Table 5.5 Underutilized Paddy Lands

D.S Division	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Vannerikulam KN/01	181.6	137611, 456357	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Anaivilunthan KN/02	51.1	142916, 457068	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Kannakaipuram KN/03	47.9	145365, 460071	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Malayalapuram KN/09	33.4	157062, 458347	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Krishnapuram KN/11	28.1	156397, 459588	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Uthayanagar West KN/13	14.1	157800, 461117	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Thondamannagar KN/17	32.8	160839, 461243	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Kanagambikaikulam KN/18	7.4	161091, 460325	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Ambalnagar KN/19	32.5	163699, 459300	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Thiruvaiaru KN/20	103.2	165165, 465451	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Thiruvaiaru West KN/21	13.1	163708, 462861	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Ratnapuram KN/22	12.6	171046, 462897	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Kanagapuram KN/26	23.3	156685, 461440	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Uruthirapuram North KN/32	45.6	153987, 470110	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

DS Division	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Kandawalai	Murasumoddai KN/50	16.0	167206,468041	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Piramanthanaru KN/58	23.	176775, 468689	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Kandawalai	Kumarapuram KN/43	50.4	157386, 469804	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Tharmapuram East KN/55	94.3	172278, 465163	1.Salinity 2.Inadequate water 3. Damage by stray animals4.Low yield 5.High cost for fencing6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Kandawalai	Korakkankadu KN/48	118.7	162098, 471566	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Periyakulam KN/52	142.8	167638, 467358	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Kandawalai	Umaiyalpuram KN/45	183.7	159113, 471854	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Puliyampokkanai KN/56	284.0	174580, 468221	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Kandawalai	Punnaineeravi KN/57	309.8	176811, 468725	1.Salinity 2.Inadequate water 3. Damage by stray animals4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Thadduvankoddy KN/47	369.8	162854, 474444	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Kandawalai	Uriyan KN/49	396.7	165372, 473941	1.Salinity 2.Inadequate water 3. Damage by stray animals .Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Kandawalai KN/51	433.8	170228, 469156	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

DS Division	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Poonakary	Nallur KN/59	58.3	144287, 470766	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Alankerny KN/60	32.7	143092, 471562	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Poonakary	Kollakurichchi KN/61	9.6	137871, 472624	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Cheddiyakurichchi KN/62	501.6	141013, 474262	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Poonakary	Gnanimadam KN/63	63.5	137251, 479838	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Pallikkudah KN/65	60.0	138092, 468686	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Poonakary	Maddvilnadhu West KN/66	431.8	136720, 476519	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Paramankirai KN/67	95.2	135215, 480236	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Poonakary	Gowtharimunai KN/68	37.2	129462, 483953	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Kariyalainagapaduvan KN/71	17.7	133135, 450409	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Poonakary	Pallavarayankadhu KN/72	0.5	132206, 453773	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Mulankavil KN/73	11.7	130790, 447666	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Poonakary	Kiranchchi KN/75	79.0	126071, 459141	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
Pachchilai palli	Thampakama m	14.0	152646, 490410	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Pachchilai palli	Tharmakerny	22.0	152292, 485233	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Kachcharvely	7.0	149792, 489541	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Pachchilai palli	Mugamalai	21.0	145608, 492750	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Kovilvayal	32.0	162841, 481953	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Pachchilai palli	Masar	4.0	157097, 486385	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Mullaiyady	4.0	153710, 486882	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Pachchilai palli	Pulopallai	9.0	151529, 485020	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Soranpattu	8.0	155468, 486534	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Pachchilai palli	Pallai Town	3.0	151234, 489138	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
	Arasarkerny	9.0	150032, 489771	1.Salinity 2.Inadequate water 3. Damage by stray animals 4.Low yield 5.High cost for fencing 6.Tennurial problems	1.Established bund to prevent sea water intrusion, Proper agronomic practices Introduce Salt tolerant Varieties Using organic fertilizers 2.Rain Water harvesting 3.Fencing 4.Introduce high yield varieties 5.Free issue of fencing materials 6.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

5.3.4.2 Underutilized Agricultural Lands

The agricultural lands include lands devoted to field crops and plantation crops such as Palmyra. Cashew and Coconut. Inadequate water, low marketing facilities and damage by stray animals are the common issues for underutilization. The locations of underutilized other agricultural lands are shown in Figure 5.6 /5.6.1 and the information about underutilized other agricultural lands are given in the Table 5.6The recommendations given in the plan could be implemented to increase their production.

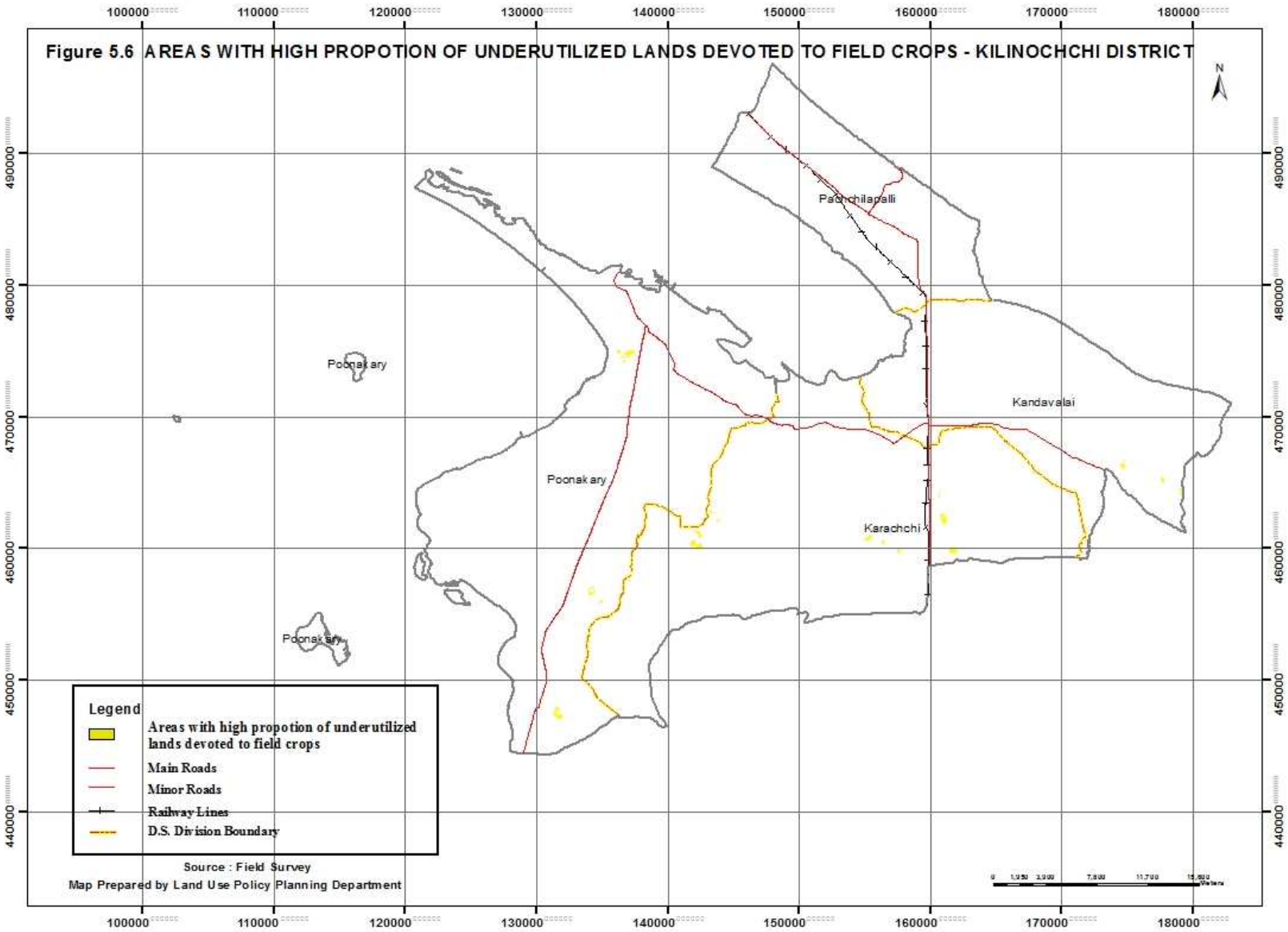


Figure 5.6 AREAS WITH HIGH PROPOTION OF UNDERUTILIZED LANDS DEVOTED TO FIELD CROPS - KILINOCHCHI DISTRICT
N
Pachchilapalli
Poonakary
Kandavalai
Poonakary
Karachchi
Poonakary
Legend
Areas with high propotion of underutilized lands devoted to field crops
Main Roads
Minor Roads
Railway Lines
D.S. Division Boundary
Source : Field Survey
Map Prepared by Land Use Policy Planning Department
100000
110000
120000
130000
140000
150000
160000
170000
180000
490000
480000
470000
460000
450000
440000

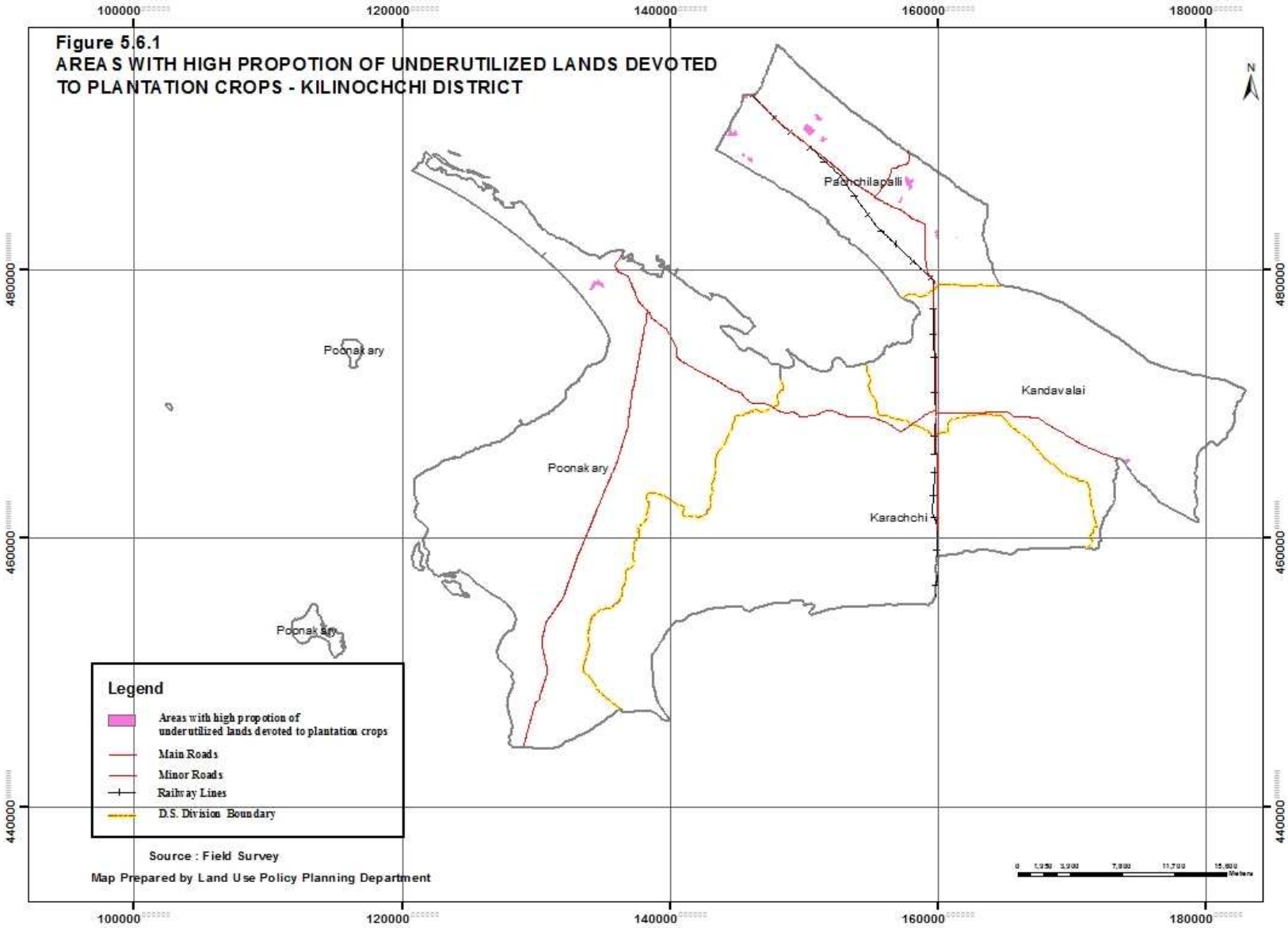


Figure 5.6.1
AREAS WITH HIGH PROPOTION OF UNDERUTILIZED LANDS DEVOTED TO PLANTATION CROPS - KILINOCHCHI DISTRICT
100000
120000
140000
160000
180000
480000
460000
440000
N
Pachchilapalli
Poonakary
Kandavalai
Karachchi
Legend
Areas with high propotion of underutilized lands devoted to plantation crops
Main Roads
Minor Roads
Railway Lines
D.S. Division Boundary
Source : Field Survey
Map Prepared by Land Use Policy Planning Department

Table 5.6 Underutilized Agricultural Lands

D.S Division	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Vannerikulam	0.8	140632, 457904	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S
	Anaivilunthan	43.8	142075, 460259	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S
	Kannakipuram	7.6	143909, 462133	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S
	Selvanager	12.6	143293, 462776	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S
	Ambalkulam	4.8	156415, 460534	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S
	Krishnapuram	8.2	157617, 459815	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S
	Kanagambikai kulam	17.8	161660, 459752	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for under utilization	Recommendations	Responsible Agencies
Karachchi	Ratnapuram	27.2	161006, 462182	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S
Kandawalai	Punnaineeravi	12.8	174666, 466251	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S
	Piramanthanaru	16.7	177678, 465265	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S
Poonakary	Pallikudah	36.0	137103, 474787	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S
	Madduvilnaduh West	2.0	135043, 476100	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S
	Jayapuram North	17.8	134163, 456544	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S
	Mulankavil	30.9	136628, 447320	Inadequate water Low marketing facilities Damage by stray animals	Rain water harvesting Practicing Proper agronomic practices Provide market facilities	Agriculture Department, Agrarian Development Department, P.S

5.3.5 Abandoned Agricultural ands

5.3.5.1 Abandoned Paddy lands

Some of the paddy lands in the district have been abandoned due to the conflict and some physical limitations. The locations of abandoned paddy lands are shown in Figure 5.7 and the extents, reasons for abandonment and recommendations are given in the Table 5.7 The information of the abandoned paddy lands provided a basis for the relevant institutions to prepare a re-cultivation program.

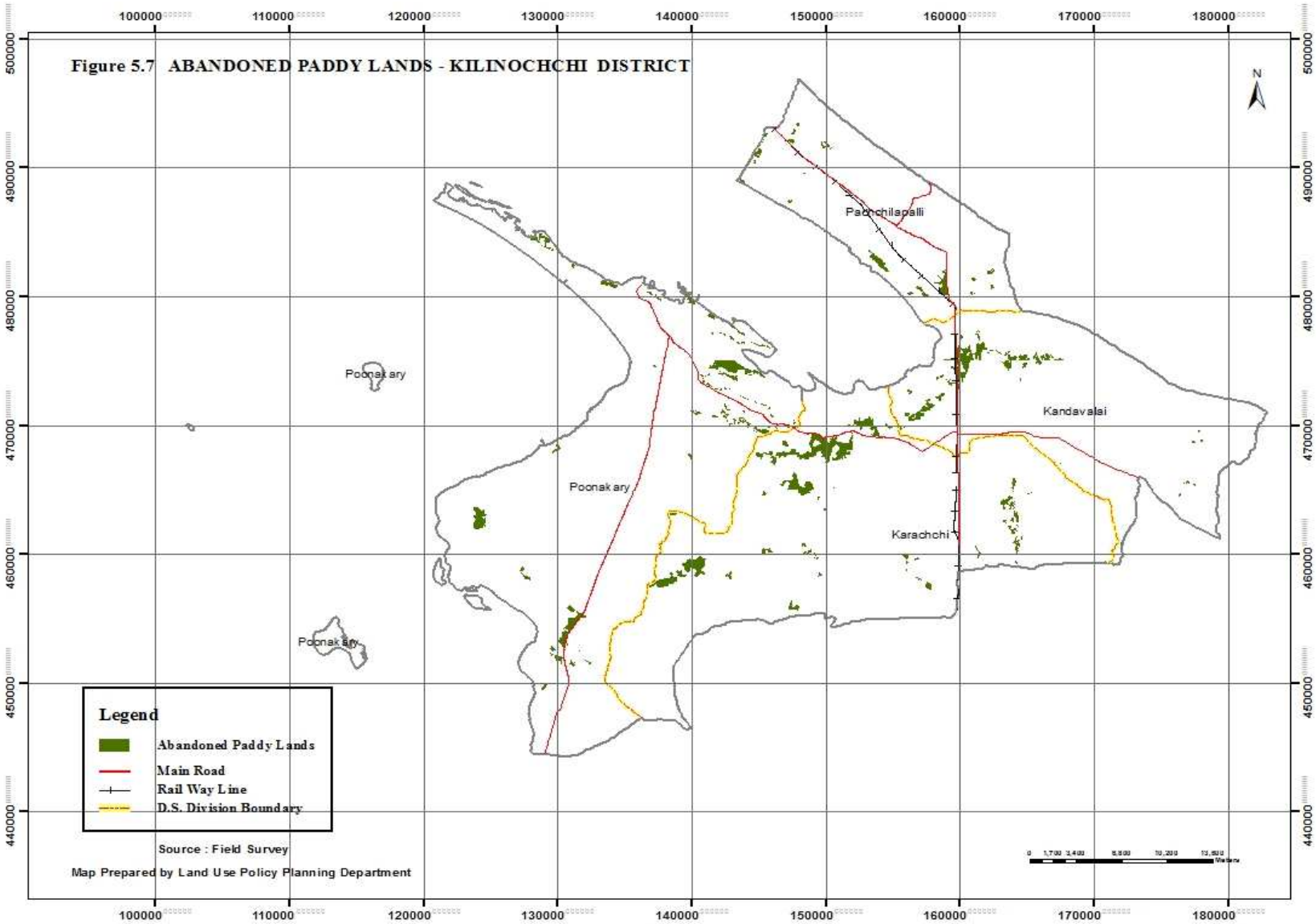


Figure 5.7 ABANDONED PADDY LANDS - KILINOCHCHI DISTRICT
N
Pachchilapalli
Kandavalai
Poonakary
Poonakary
Poonakary
Karachchi
Legend
Abandoned Paddy Lands
Main Road
Rail Way Line
D.S. Division Boundary
Source : Field Survey
Map Prepared by Land Use Policy Planning Department
100000
110000
120000
130000
140000
150000
160000
170000
180000
500000
490000
480000
470000
460000
450000
440000

Table 5.7 Abandoned Paddy lands

DS Division	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Responsible Agencies
Karachchi	Vannerikulam KN/01	239.0	138501,457786	Salinity problem	Improve the land / Introduce salinity resistant paddy varieties	Agriculture Department,Irrigation Department, Agrarian Development Department
	Anaivilunthan KN/02	74.1	140916,459407	Salinity problem	Improve the land / Introduce salinity resistant paddy varieties	Agriculture Department,Irrigation Department, Agrarian Development Department
	Uruthirapuram North KN/32	697.3	150749,468331	Salinity problem	Improve the land / Introduce salinity resistant paddy varieties	Agriculture Department,Irrigation Department, Agrarian Development Department
	Uruthirapuram West KN/34	218.3	145089,467600	Salinity problem Absentee land owner	Improve the land / Introduce salinity resistant paddy varieties / With the consent of land owner , lease the land	Agriculture Department,Irrigation Department, Agrarian Development Department,D.S

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Responsible Agencies
Karachchi	Skandapuram KN/04	32.5	147481,455927	Absentee land owner Lack of capital	With the consent of land owner , lease the land/Awareness creation on agricultural loans and subsidy schemes.	Agriculture Department, Agrarian Development Department,D.S
	Konavil KN/06	24.7	148842,460170	Absentee land owner Lack of capital	With the consent of land owner , lease the land/Awareness creation on agricultural loans and subsidy schemes.	Agriculture Department, Agrarian Development Department,D.S
	Ambalnagar KN/19	39.8	164321,460437	Absentee land owner Lack of capital	With the consent of land owner , lease the land/Awareness creation on agricultural loans and subsidy schemes.	Agriculture Department, Agrarian Development Department,D.S
	Kannakaipuram KN/03	21.9	145586,460357	Absentee land owner Lack of capital	With the consent of land owner , lease the land/Awareness creation on agricultural loans and subsidy schemes.	Agriculture Department, Agrarian Development Department,D.S

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Responsible Agencies
Karachchi	Malayalapuram KN/09	28.4	157729,457528	Absentee land owner Lack of capital	With the consent of land owner , lease the land/Awareness creation on agricultural loans and subsidy schemes.	Agriculture Department, Agrarian Development Department,D.S
	Krishnapuram KN/11	19.0	155941,459850	Absentee land owner Lack of capital	With the consent of land owner , lease the land/Awareness creation on agricultural loans and subsidy schemes.	Agriculture Department, Agrarian Development Department,D.S
Kandawalai	Kumarapuram KN/43	127.9	157035,470846	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
	Umaiyalpuram KN/45	33.5	158503,472127	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department

DS Division	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Responsible Agencies
Kandawalai	Elephantpass KN/46	315.7	159810,474662	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
	Thadduvankoddy KN/47	316.0	161598,476130	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
	Uriyan KN/49	107.6	164801,475116	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Responsible Agencies
Kandawalai	Kandawalai KN/51	23.3	167123,474822	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
Poonakary	Madduvilnadhu KN/66	3.3	136614,475933	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
	Kiranchi KN/75	20.0	127750,458243	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department

	Extent(ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Responsible Agencies	G.N.Division
Poonakary	Ponnaveli KN/76	120.5	124182,462328	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
	Kariyalainagapaduvan KN/71	104.4	130373,452095	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
	Nachchikudah KN/74	10.0	129126,449688	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Responsible Agencies
Poonakary	Kiranchchi KN/75	24.1	127053,459114	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
	Gnanimadam KN/63	40.2	140034,479583	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
	Paramankirai KN/67	45.1	134335,480749	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Responsible Agencies
Poonakary	Gowtharimunai KN/68	50.4	128297,484473	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
	Alankerny KN/60	72.2	142398,471051	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Responsible Agencies
	Nallur KN/59	79.4	145409,469594	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
Poonakary	Cheddiyakurichchi KN/62	274.4	143207,474548	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
	Pallavarayankaddhu KN/72	289.9	131227,454344	1.Salinity problem 2.Lack of water	1.Improve the land / Introduce salinity resistant paddy varieties 2.Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department

DS Division	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Responsible Agencies
Pachchilaipalli	Mukamalai	13.3	147598,494437	Land Mine Area	Clear land mines	District Mine Action Unit
	Iththavil	15.3	148303,493322	Lack of Water	Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
	Tharmakerny	8.0	152198,490509	Salinity problem	Improve the land / Introduce salinity resistant paddy varieties	Agriculture Department,Irrigation Department, Agrarian Development Department
	Masar	32.3	159100,487293	Lack of Water	Promote water conservation and attend to irrigation problems	Agriculture Department,Irrigation Department, Agrarian Development Department
	Mukavil	101.1	157077,480636	Salinity problem /Absence of land lord	Improve the land / Introduce salinity resistant paddy varieties	Agriculture Department,Irrigation Department, Agrarian Development Department

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Responsible Agencies
Pachchilai palli	Iyakachchi	8.0	159249,483193	Absence of land lord	With the consent of land owner , lease the lands	D.S., Agrarian Development Department
	Kilaly	30.3	143570,489134	Salinity problem	Improve the land / Introduce salinity resistant paddy varieties	Agriculture Department,Irrigation Department, Agrarian Development Department
	Palai Town	20.2	151066,487631	Absence of land lord	With the consent of land owner , lease the lands	D.S., Agrarian Development Department
	Soranpattu	24.2	156328,487339	Salinity problem	Improve the land / Introduce salinity resistant paddy varieties	Agriculture Department,Irrigation Department, Agrarian Development Department
	Thambakamam	56.6	151580,490391	Absence of land lord	With the consent of land owner , lease the lands	D.S., Agrarian Development Department
	Allippalai	23.0	147253,487392	Absence of land lord	With the consent of land owner , lease the lands	D.S., Agrarian Development Department

5.3.5.2Abandoned other Agricultural Lands

The abandoned other agricultural lands are shown in Figure 5.8 and the information about these lands is given in the table 5.8.

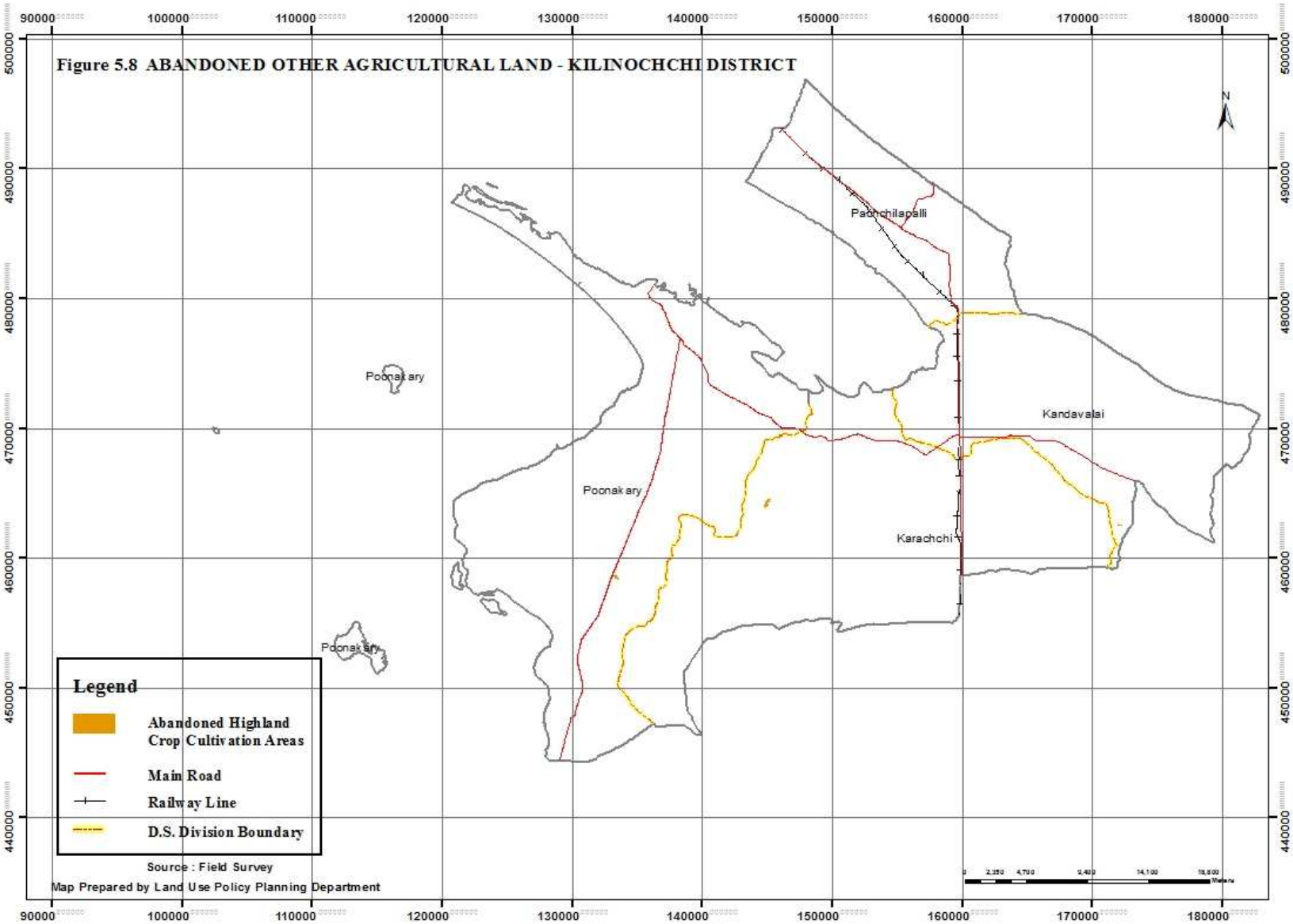


Figure 5.8 ABANDONED OTHER AGRICULTURAL LAND - KILINOCHCHI DISTRICT
Poonakary
Poonakary
Poonakary
Kandavalai
Karachchi
Legend
Abandoned Highland Crop Cultivation Areas
Main Road
Railway Line
D.S. Division Boundary
Source : Field Survey
Map Prepared by Land Use Policy Planning Department

Table 5.8 Abandoned other Agricultural Lands

D.S Division	G.N.Division	Extent(ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Implementing Agencies
Poonakary	KN/69 Jayapuram North	28.04	133533,459092	1.Inadequate water 2. Damage by stray animals 3.Low yield 4.High cost for fencing 5.Tennurial problems	1.Rain Water harvesting 2.Fencing 3.Introduce high yield varieties 4.Free issue of fencing materials 5.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
Karachchi	KN/35 Sivanagar	19.54	145015,464306	1.Inadequate water 2. Damage by stray animals 3.Low yield 4.High cost for fencing 5.Tennurial problems	1.Rain Water harvesting 2.Fencing 3.Introduce high yield varieties 4.Free issue of fencing materials 5.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD
Kandawalai	KN/53 Kaladunager	5.21	172105,462545	1.Inadequate water 2. Damage by stray animals 3.Low yield 4.High cost for fencing 5.Tennurial problems	1.Rain Water harvesting 2.Fencing 3.Introduce high yield varieties 4.Free issue of fencing materials 5.Give the recommendation based on the case study	Agriculture Department, Agrarian Development Department, Irrigation Department LUPPD

5.3.6 Abandoned Settlements

There are several settlements abandoned mainly due to conflict situation in the past. The abandoned settlements are shown in Figure 5.9 and the information about these settlements is given in the Table 5. 9

However, most of the settlements cannot be used for the resettlement since some of the areas are declared by Forest and Wild life Departments. The information provided by the plan can be used to resolve the issue.

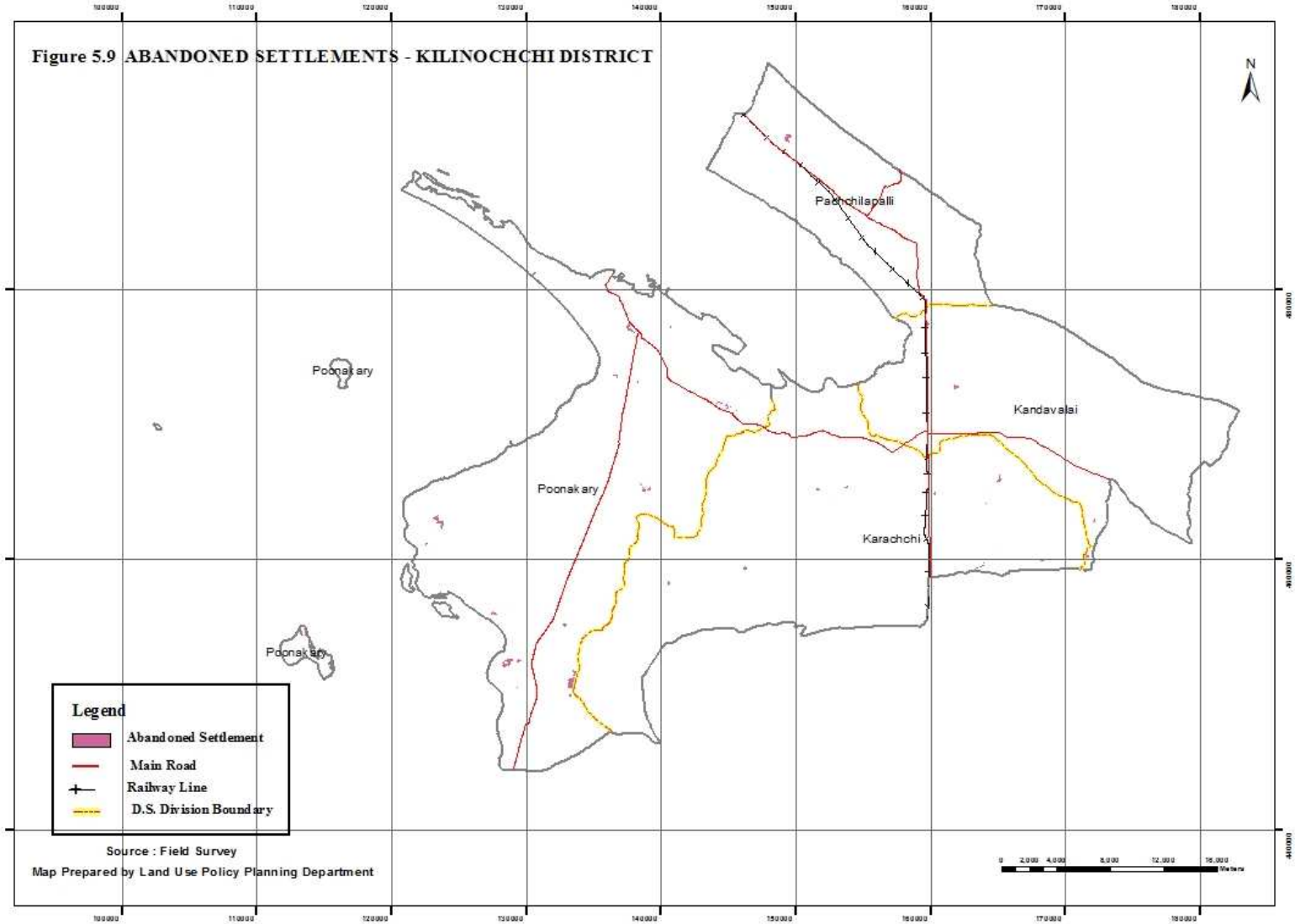


Figure 5.9 ABANDONED SETTLEMENTS - KILINOCHCHI DISTRICT
N
Pachchilapalli
Poonakary
Kandavalai
Poonakary
Karachchi
Poonakary
Legend
Abandoned Settlement
Main Road
Railway Line
D.S. Division Boundary
Source : Field Survey
Map Prepared by Land Use Policy Planning Department

Table 5.9 Abandoned Settlements

D.S Division	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Implementing Agencies
Karachchi	KN/02 Anaivilunthan	2.2	140595, 458290	Low availability of drinking water Displacement Low rate of resettlement Low level of infrastructure Salinity problem	Provide water storage facilities Provide proper infrastructure facilities	D.S, Ministry of Rehablitation
	KN/19 Ambalnagar	6.7	163810, 459498	Displacement Low rate of resettlement	Provide proper infrastructure facilities	D.S, Ministry of Rehablitation
	KN/01 Vanerikulam	9.1	140551, 458166	Low availability of drinking water Displacement Low rate of resettlement Low level of infrastructure Salinity problem	Provide water storage facilities Provide proper infrastructure facilities	D.S, Ministry of Rehablitation
Poonakary	Pallikkudah KN/65	18.1	138793, 465127	Displacement Low rate of resettlement Low level of infrastructure	Provide water storage facilities Provide proper infrastructure facilities	D.S, Ministry of Rehablitation,
	Pallavarayankaddu KN/72	30.4	136697, 473605	Displacement Low rate of resettlement Low level of infrastructure structure	Provide proper infrastructure facilities	D.S, Ministry of Rehablitation
	Ponnaveli KN/76	27.6	123726, 462717	Displacement Low rate of resettlement Low level of infrastructure structure	Provide proper infrastructure facilities	D.S, Ministry of Rehablitation
	Madduvilnadu west KN/66	14.7	137614, 477187	Low availability of drinking water Displacement Low rate of resettlement	Provide water storage facilities Provide proper infrastructure facilities	D.S, Ministry of Rehablitation

	G.N.Division	Extent (ha)	Geo-coordinates	Reasons for abandonment	Recommendations	Implementing Agencies
Poonakary	Jeyapuram south KN/70	4.4	132841, 455176	Displacement Low rate of resettlement Low level of infrastructure structure	Provide proper infrastructure facilities	D.S, Ministry of Rehablitation
	Madduvilnaadu east KN64	1.2	138294, 473165	Low availability of drinking water Displacement Low rate of resettlement	Provide water storage facilities Provide proper infrastructure facilities	D.S, Ministry of Rehablitation
	Iranaithivu	29.9	135599, 454384	High security zone		Ministry of Defence
Pachchilaipalli	Mukamalai	40.4	146473, 493140	Mine field	Clear Mines	District Mine Action Unit,Ministry of Rehablitation
	Kilaly	2.0	144338, 489703	Displacement Low rate of resettlement	Provide proper infrastructure facilities	D.S, Ministry of Rehablitation
	Iththavil	18.2	148466, 492889	Mine field	Clear Mines	District Mine Action Unit, Ministry of Rehablitation
	Iyakachchi	8.9	160395, 484433	Displacement Low rate of resettlement	Provide proper infrastructure facilities	D.S, Ministry of Rehablitation
	Vembodukerny	151.7	147851, 490782	Mine field	Clear Mines	District Mine Action Unit, Ministry of Rehablitation
	Muhavil	14.5	157805, 483517	Displacement Low rate of resettlement	Provide proper infrastructure facilities	D.S, Ministry of Rehablitation

5.3.7 Unutilized lands

The unused state lands were identified and site assessments were done to determine their suitability for different purposes such as housing, agriculture, tourism, service centers and other. The locations of unutilized lands are shown in Figure 5.10 and the extents and their suitability is given in the Table 5.10

To allocate the lands rationally in the District, this information is very important for the decision makers. The unused areas are categorized, based on their suitability for different purposes and shown in the plan.

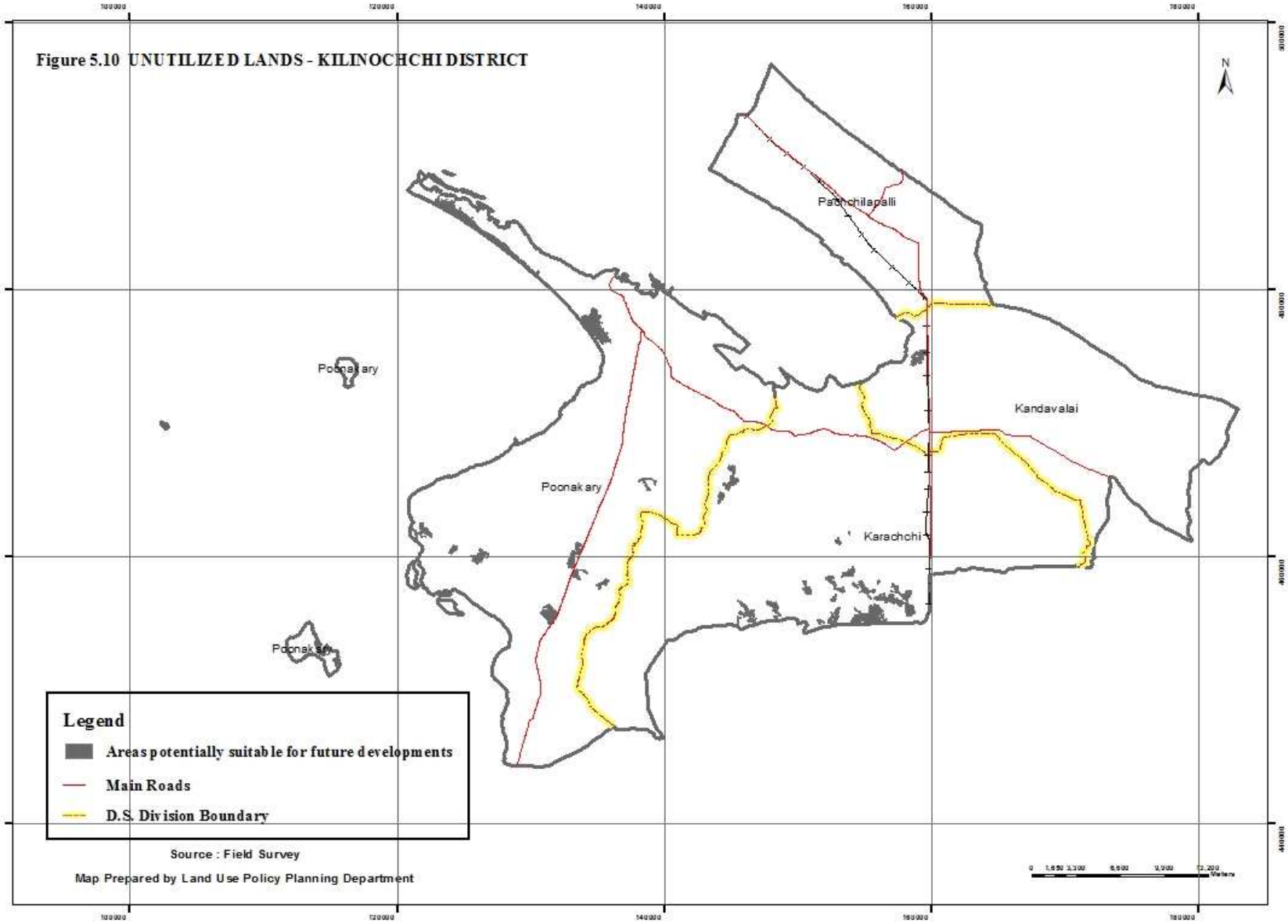


Figure 5.10 UNUTILIZED LANDS - KILINOCHCHI DISTRICT
N
Pachchilapalli
Kandavalai
Poonakary
Karachchi
Legend
Areas potentially suitable for future developments
Main Roads
D.S. Division Boundary
Source : Field Survey
Map Prepared by Land Use Policy Planning Department

Table 5.10 Unutilized Lands

D.S.Division	G.N.Division	Extent(ha)	Geo-coordinates	Ownership	Recommendations
Karachchi	Unionkulam	34 .0	150634,457632	Forest Reserve	Suitable for Settlements
	Arivialnager	45.0	158320,456174	Forest Reserve	Suitable for Industries
	Ponnagar	111.0	157548,456664	Forest Reserve	Suitable for forestry
	Akkarayan	390.6	155562,455622	Forest Reserve	Suitable for forestry
	Skanthapuram	98.2	148183,456419	Forest Reserve	Suitable for forestry
	Ootupulam	10.0	152975,461089	Forest Reserve	Suitable for forestry
Kandawalai	Elephant pass	69.0	158696,474775	State	Suitable for Industries
Poonakary	Pramankirai	294 .0	134765,477724	State Forest Land	Suitable for Agriculture
	Veravil – MotayanKulam	59.0	126232,460063	Forest Reserve	Suitable for Agriculture
	Sunnavil	79.0	133442,458674	State Forest Land	Suitable for Agriculture
	Mutkompan	89.0	145041,465611	State Forest Land	Suitable for Agriculture
	Mulankavil	20 .0	129068,446900	State	Suitable for Grazing
	Kiranchi	100.0	131638,455775	State	Suitable for Grazing
	Sunnavil	61 .0	135607,457958	State	Suitable for Tourism
	Gowtharimunai	335.0	126943,483935	State	Suitable for Tourism

	G.N.Division	Extent(ha)	Geo-coordinates	Ownership	Suitable for Tourism **Recommendations**
Poonakary	Palaithivu	9 .0	116807,474362	State	Suitable for Tourism
	Iranaithivu	6 .0	113473,454993	State	Suitable for Tourism
	Arasarpuram	25.0	138269,465752	State	Suitable for Settlement
	Veravil	21.0	133113,460034	State	Suitable for Settlement
	Valaipadu	34.0	122167,461940	State	Suitable for Industry
Pachchilaipalli	Kilaly	1.2	145205,489190	State	Suitable for Grazing
	Iththavil	8.1	149860,493238	LRC Land	Suitable for Settlement
	Soranpattu	10.0	156094,487125	LRC Land	Suitable for Agriculture
	Tharmakerny	12.3	152309,485749	LRC Land	Suitable for Agriculture
	Kovilvayal	4.0	162551,483523	LRC Land	Suitable for Settlement
	Iththavil	26.9	148747,492267	LRC Land	Suitable for Agriculture
	Kachcharvely	18.2	147492,489069	LRC Land	Suitable for Settlement
	Arasarkerny	39.6	149678,491457	LRC Land	Suitable for Settlement
	Pulopallai	37.9	150528,485385	LRC Land	Suitable for Agriculture
	Allipallai	200.4	148301,486802	LRC Land	Suitable for Settlement

5.3.8 Areas where the Present Land Uses can be continued without much improvement

There are some areas where the present status are satisfactory and can be continued with the existing practice without much improvement. In this proposed plan it is divided into three groups.

1. Home gardens where present use can be continued without much improvement
2. Paddy lands where present use can be continued without much improvement
3. Agricultural lands where present use can be continued without much improvement

The extents of the above areas where present use can be continued without much improvement and the divisions, in which these areas are found, are given in the Tables 5.11, 5.12, and 5.13 accordingly.

Table 5.11 Home gardens where present use can be continued without much improvement

D.S .Division	Extent (ha)
Kandawalai	1874.3
Pachchilaipalli	1975.7
Poonakary	2638.1
Karachchi	8235.0
Total	14723.1

Table 5.12 Paddy Lands where present use can be continued without much improvement

D.S .Division	Extent (ha)
Karachchi	11251.0
Kandawalai	9368.0
Poonakary	2773.0
Pachchilaipalli	909.0
Total	24301.0

Table 5.13 Agricultural Lands where present use can be continued without much improvement

D.S .Division	Extent (ha)
Karachchi	986.0
Kandawalai	279.0
Poonakary	1293.0
Pachchilaipalli	1482.0
Total	4040.0

5.4 Other issues related to Land Use

Illegal Gravel and Rock mining, deforestation, illegal Sand extraction on river beds, Tank beds encroachment, and Garbage dumping and different types of encroachments are some of the other issues in the District. In Table 5.14 the other land related issues are given.

Table 5.14 Other issues related to Land Use

D.S Division	G.N Division	Geo-coordinates	Issue	Reason for Issues	Recommendation	Responsible Agencies
Kandawalai	Thadduvankoddy Elephantpass Kandavalai Uriyan	160889,477597 160065,476015 170885,473556 163880,475191	Salt water intrusion	No salinity barriers	Establish new salinity barriers	Agriculture Department, Irrigation Department, Agrarian Development Department
	Kandavalai Tharmapuram East	166525,475244 173690,465939	Illegal sand mining		Enforcement of Law	Geological survey & mines bureau, Central Environment Authority, D.S,G.N
	Elephantpass	159254,474409	Garbage dumping	No proper management mechanism	Introduce proper management mechanism	Central Environment Authority, Pradeshiya Saba
	Thadduvankoddy	163620,475176	Danger of mines in home gardens and paddy lands		Clear land mines	District Mine Action Unit
Karachchi	Uruthirapuram North Vannerikulam	151793,470361 140138,458177	Salt water intrusion	No salinity barriers	Establish new salinity barriers	Agriculture Department, Irrigation Department, Agrarian Development Department
	Akkarayankulam	150920,457515	Deforestation	Increase of demand for the lands	Enforcement of Law	Forest Department, Central Environment Authority D.S

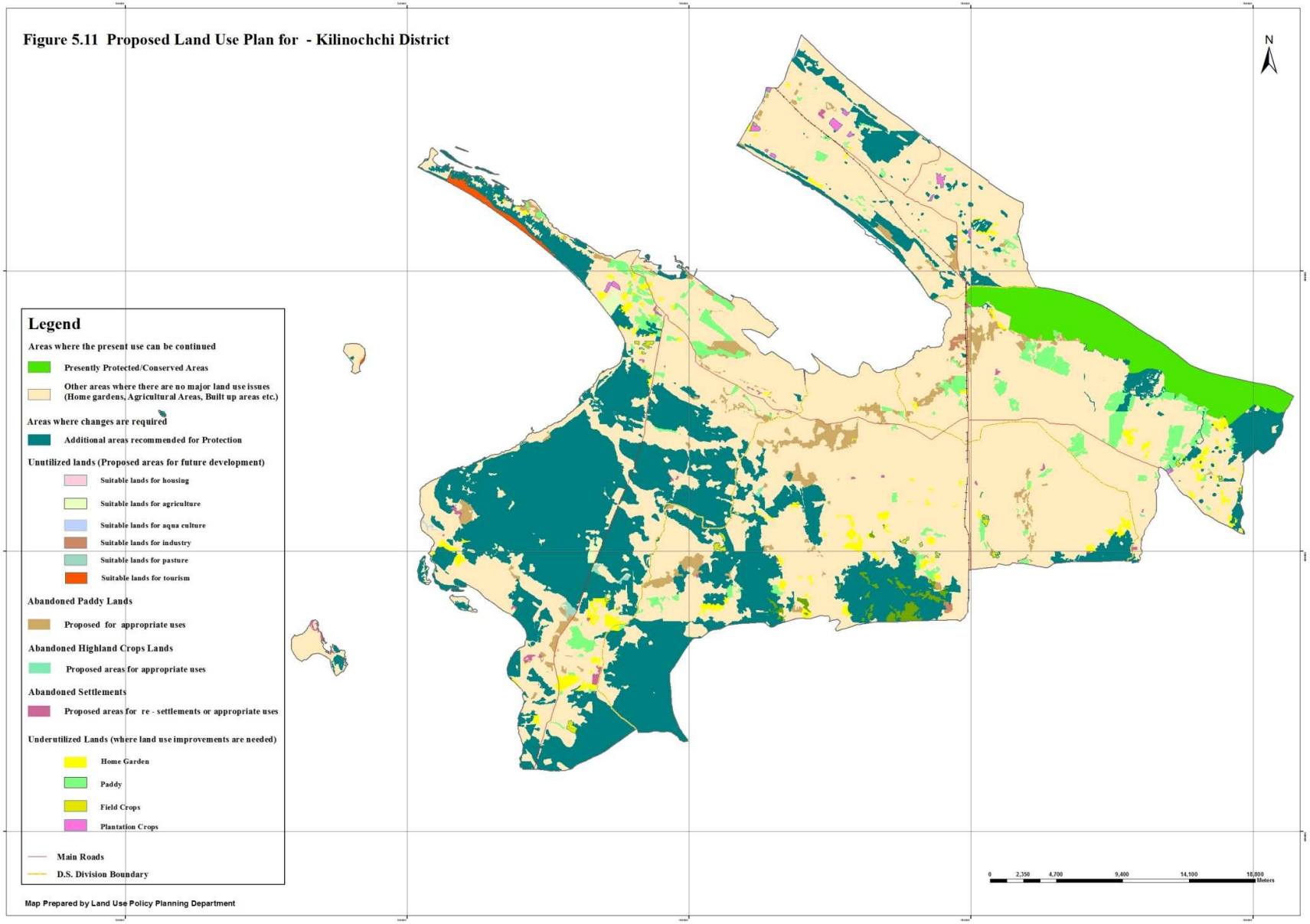
	G.N Division	Geo-coordinates	Issue	Reason for Issues	Recommendation	Responsible Agencies
Karachchi	Ponnagar	158359,456366	Garbage dumping	No proper management mechanism	Introduce proper management mechanism	Central Environment Authority, Pradeshiya Saba
	Ambalnagar	164290,460351	Illegal Soil Mining	Increasing demand on constructions	Enforcement of Law	Agriculture Department, Agrarian Development Department
	Uruthirapuram West	147399,465356	Illegal Sand mining	Increasing demand on constructions	Enforcement of Law	Geological survey & mines bureau ,Central Environment Authority, D.S,G.N
	Vannerikulam Anaivilunthankulam	140052,458119 140107,458092	Abandoned tanks	Previous conflict situation	Renovate tanks	Irrigation Department, Agrarian Development Department
	Ponnagar Akkarayan Skanthapuram Ootupulam	157583,456530 155606,455362 148240,456350 153091,461067	Illegal Gravel mining	Road development purposes	Enforcement of Law	Forest Department, Geological survey & mines bureau, Central Environment Authority,D.S,G.N
Pachchilapalli	Kovilvayal Mugavil	159113,480402 158069,479909	Salt water intrusion	No salinity barriers	Establish new salinity barriers	Irrigation Department, Agrarian Development Department

DS Division	G.N Division	Geo-coordinates	Issue	Reason for Issues	Recommendation	Responsible Agencies
Pachchilapalli	Kilaly Allipallai	144793,488542 147968,486875	Illegal Sand mining	Increasing demand on constructions	Enforcement of Law	Geological survey & mines bureau , Central Environment Authority D.S, G.N.
	Kilaly, Ithavil	145851,488754 148365,492723	Danger of mines in home gardens and paddy lands	Previous conflict situation	Clear the mines	District Mine Action Unit
Poonakary	Gowtharimunai	121120,487689	Coastal erosion			Coast Conservation Department
	Kiranchi Ponnaveli Iranaithivu Cheddiyakurichchi	127357,455491 122824,458985 116997,473961 143187,477543	Coastal Sand mining	Increasing demand on constructions	Enforcement of Law	Geological survey & mines bureau , Central Environment Authority D.S, G.N. DMC, Coast Conservation Department
	Mulankavil	129989,444910	Deforestation	Increasing demand on lands	Enforcement of Law	Forest Department , Central Environment Authority, D.S,G.N

DS Division	G.N Division	Geo-coordinates	Issue	Reason for Issues	Recommendation	Responsible Agencies
Poonakary	Alankerny Nallur Cheddiyakurichchi Gowtharimunai Ponnaveli Kariyalainagapaduvan Nachchikudah Paramankirai Gnanimadam Kiranchi Cheddiyakurichchi	142996,472225 146209,470848 142154,476471 126508,485882 121343,462585 128841,453365 128344,449769 135766,480527 138672,479376 130457,455796 140509,473942	Salt water intrusion		Renovate barrage Renovate barrage door Renovate bund Establish new salinity bund	Irrigation Department, Agrarian Development Department
	Jeyapuram North Gowtharimunai Manthivu	134649,457250 123142,488055	Danger of mines in home gardens and paddy lands	Previous Conflict situation	Clear the mines	District Mine Action Unit
	Mulankavil	130540,446629	Illegal Rock Mining		Enforcement of Law	Geological survey & mines bureau
	Ponnaveli	124618,462135	Illegal Soil extraction		Enforcement of Law	Agriculture Department , Agrarian Development Department
	Ponnaveli Kiranchi	124841,462421 126687,460097	Abandoned tanks	Previous Conflict situation	Renovate tanks	Irrigation Department, Agrarian Development Department

DS Division	G.N Division	Geo-coordinates	Issue	Reason for Issues	Recommendation	Responsible Agencies
Poonakary	Pallikudah Kariyalainagapaduvan Mulankavil Nachchikudah Kiranchchi Ponnaveli	135451,474729 127832,452978 127926,448240 128098,450161 125551,456889 121685,460125	Encroachments in the coastal zone	Fisheries activities	Re locate suitable places	Coast Conservation Department,D.S

Figure 5.11 Proposed Land Use Plan for - Kilinochchi District



6. Proposed implementation strategy

In implementing the recommendations given in the plan to address the issues two approaches could be adopted.

(1) Parallel approach where all the issues could be addressed simultaneously.

(2) Step wise approach based on the priorities.

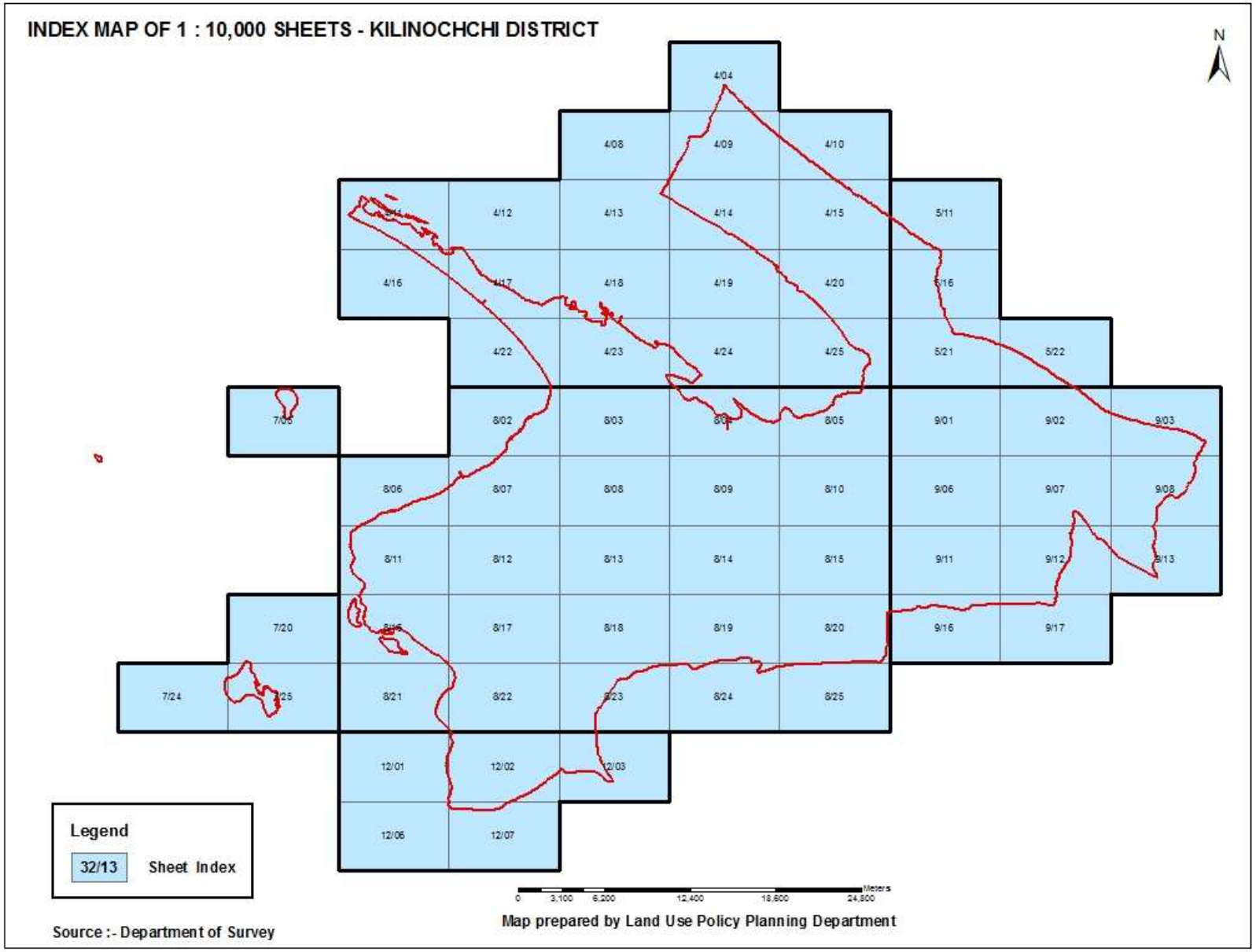
The approach to be adopted would of cause depend on the available financial and other resources.

At the district level there is no central agency that could undertake the implementation of the recommendations of the plan. Hence, the implementation of the recommendations will have to be shared by several agencies. These agencies could be categorized as main responsible agencies and as supportive agencies. Each agency should incorporate the implementation activities in their annual action plans. The funds to implement these activities should be obtained either from routing government funds or from other external sources.

Implementation programme for the entire district will be monitored by the different level committees such as District Coordinating Committee (DCC), District Agricultural Committee (DAC), and District Land Use Committee (DLUC). Entire implementation programme will be coordinated by Government Agent/District Secretary.

The time frame for the implementation of each recommendation will vary depending on the nature of the activity. Some activities are long term (more than two years), some are medium term (one to two years) and some are short term (less than one year).

Annex :- I

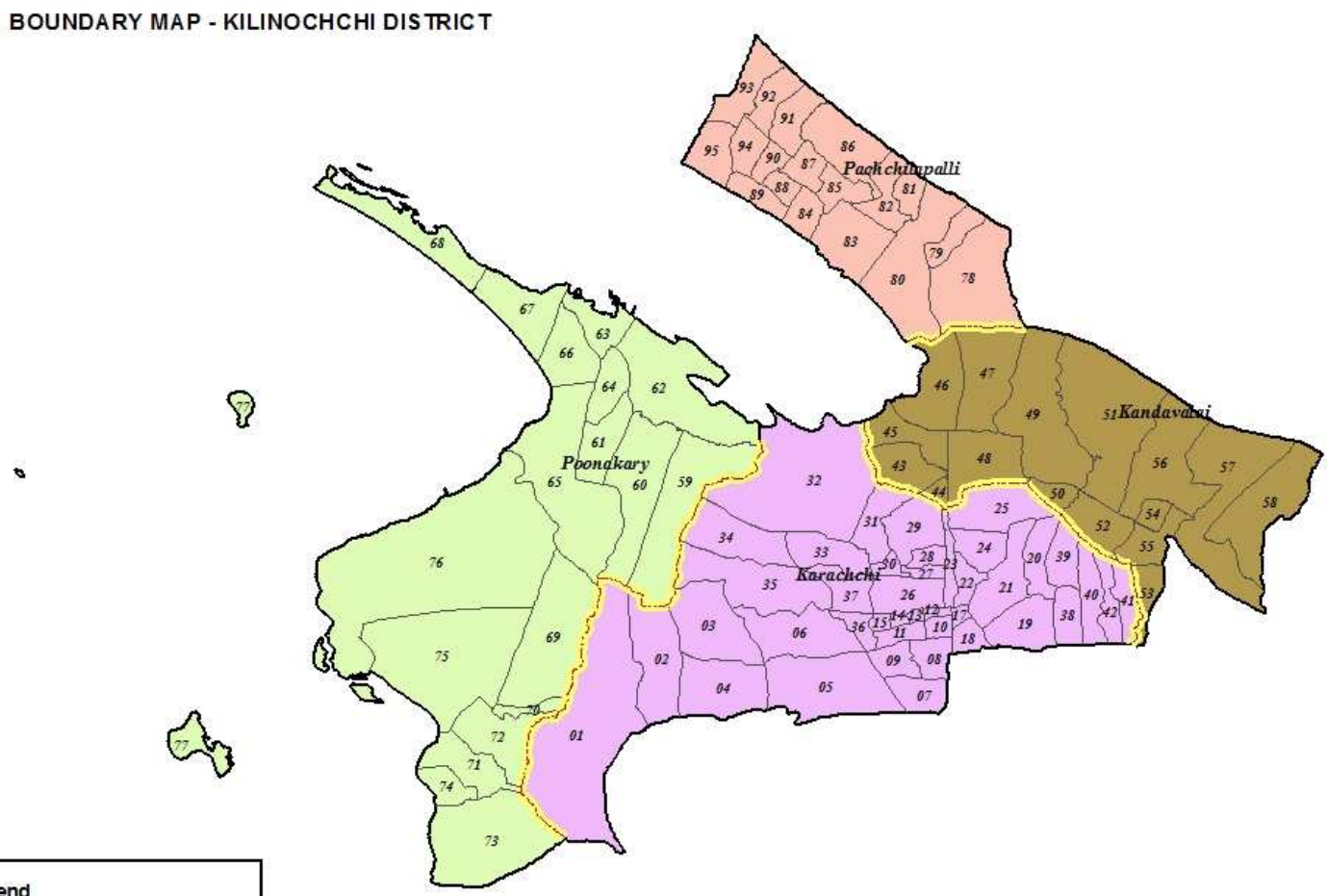


Source :- Department of Survey

Map prepared by Land Use Policy Planning Department

Annex :- II

G.N.D. BOUNDARY MAP - KILINOCHCHI DISTRICT



Source :- Department of Survey

Map prepared by Land Use Policy Planning Department

Annex - III

Grama Niladari Divisions of Kilinochchi District

KARACHCHI- DS Division

1.	Vannerikulam	KN/01
2.	Anaivilunthankulam	KN/02
3.	Kannakaipuram	KN/03
4.	Skandapuram	KN/04
5.	Akkarayankulam	KN/05
6.	Konavil	KN/06
7.	Ponnagar	KN/07
8.	Bharathipuram	KN/08
9.	Malayalapuram	KN/09
10.	Vivegananthanagar	KN/10
11.	Krishnapuram	KN/11
12.	Uthayanagar East	KN/12
13.	Uthayanagar West	KN/13
14.	Ambalkulam	KN/14
15.	Selvanagar	KN/15
16.	Ananthapuram	KN/16
17.	Thondamannagar	KN/17
18.	Kanagambikaikulam	KN/18
19.	Ambalnagar	KN/19
20.	Thiruvaiaru	KN/20
21.	Thiruvaiaru West	KN/21
22.	Rathnapuram	KN/22
23.	Kilinochchi Town	KN/23
24.	Maruthanagar	KN/24
25.	Pannankandy	KN/25
26.	Kanagapuram	KN/26
27.	Thirunagar South	KN/27
28.	Thirunagar North	KN/28
29.	Kaneshapuram	KN/29
30.	Jeyanthinagar	KN/30
31.	Periyaparanthan	KN/31
32.	Uruthirapuram North	KN/32
33.	Uruthirapuram East	KN/33
34.	Uruthirapuram West	KN/34
35.	Sivanagar	KN/35
36.	Ootupulam	KN/36
37.	Puthumurippu	KN/37
38.	Vaddakachchi	KN/38
39.	Civik Centre	KN/39
40.	Mayavanoor	KN/40
41.	Ramanathapuram	KN/41
42.	Mavadiyamman	KN/42

KANDAWALAI - DS Division

1.	Kumarapuram	KN/43
2.	Paranthan	KN/44
3.	Umaiyalpuram	KN/45
4.	Elephantpass	KN/46
5.	Thadduvankoddy	KN/47
6.	Korakkankadhu	KN/48
7.	Uriyan	KN/49
8.	Murasumoddai	KN/50
9.	Kandawalai	KN/51
10.	Periyakulam	KN/52
11.	Kalmadunagar	KN/53
12.	Tharmapuram West	KN/54
13.	Tharmaporum East	KN/55
14.	Puliyampokkanai	KN/56
15.	Punnaineeravi	KN/57
16.	Piramanthanaru	KN/58

POONAKARY – DS Division

1.	Nallur	KN/59
2.	Alankerny	KN/60
3.	Kollakurichchi	KN/61
4.	Cheddiyakurichchi	KN/62
5.	Gnanimadam	KN/63
6.	Madduvilnadhu East	KN/64
7.	Pallikkudah	KN/65
8.	Madduvilnadhu West	KN/66
9.	Paramankirai	KN/67
10.	Gowtharimunai	KN/68
11.	Jeyapuram North	KN/69
12.	Jeyapuram South	KN/70
13.	Kariyalainagapaduvan	KN/71
14.	Pallavarayankadhu	KN/72
15.	Mulankavil	KN/73
16.	Nachchikudah	KN/74
17.	Kiranchi	KN/75
18.	Ponnaveli	KN/76
19.	Iranaithivu	KN/77

PACHCHILAIPALLI – DS Division

1.	Kovilvayal	KN/78
2.	Iyakkachchi	KN/79
3.	Mugavil	KN/80
4.	Masar	KN/81
5.	Soranpattu	KN/82
6.	Tharmakerny	KN/83
7.	Pulopallai	KN/84
8.	Mullaiyady	KN/85
9.	Thampakamam	KN/86
10.	Pallai Town	KN/87
11.	Pulopallai West	KN/88
12.	Allipallai	KN/89
13.	Kachcharvely	KN/90
14.	Arasarkerny	KN/91
15.	Ittavil	KN/92
16.	Mugamalai	KN/93
17.	Vembodukerny	KN/94
18.	Kilaly	KN/95

Annex - IV

National Expert Group – Member List

1) Secretary - Ministry of Lands(chair Person)
2) Director Genera - Land Use Policy Planning Department(Coordinator)
3) Secretary - Ministry of Economic Development
4) Secretary - Ministry of Religious and Cultural Affairs
5) Secretary -Ministry of Defense
6) Secretary - Ministry of Tourism
7) Secretary - Ministry of Environment
8) Government Agent/ District Secretary - Jaffna District
9) Government Agent/ District Secretary - Mannar District
10) Government Agent/ District Secretary - Vavuniya District
11) Government Agent/ District Secretary - Mullativu District
12) Government Agent/ District Secretary - Kilinochchi District
13) Government Agent/ District Secretary - Batticaloa District
14) Government Agent/ District Secretary - Ampara District
15) Government Agent/ District Secretary - Trincomalee District
16) Commissioner General - Land Commissioner General's Department
17) Conservator General - Department of Forest Conservation
18) Director General - Department of Agriculture
19) Director General - Coast Conservation Department
20) Commissioner General - Department of Archeology
21) Director General - Department of Wildlife Conservation
22) Survey General - Survey General's Department
23) Director General - National Physical Planning Department
24) Director General - Department of Irrigation
25) Commissioner General - Land Settlement Department
26) Director General - Central Environmental Authority
27) Director General - Disaster Management Center
28) Director General - Geological Survey and Mines Bureau
29) Director General - Urban Development Authority
30) Director General - Road Development Authority
31) Commissioner - Department of Agrarian Services

Annex - V

District Level Expert Group – Member List

1) Government Agent/District Secretary (Chair Person)
2) Assistant Director (District Land Use) - (Secretary)
3) Provincial Land Commissioner
4) Divisional Secretaries
5) Director of Irrigation – Department of Irrigation
6) Director - Urban Development Authority
7) Deputy Director - Agriculture ,Provincial Department of Agriculture
8) District Forest Officer - Department of Forest Conservation
9) Senior Superintendent of Survey – Department of Survey
10) District Engineer - Road Development Authority
11) District Engineer - Water Supply & Drainage Board
12) District Manager - Water Resource Board
13) District Manager - National Housing Development Authority
14) General Manager - Palmyra Development Board
15) Deputy General Manager - Ceylon Electricity Board
16) Deputy Director - Industrial Development Board
17) Deputy Director - Board of Investment
18) Deputy Director - Rubber Development Department
19) Assistant Commissioner - Department of Agrarian Development
20) Assistant Commissioner - Local Government
21) District Archeological Officer - Department of Archeology
22) Regional Manager - Coconut Cultivation Board
23) Assistant Director - Central Environment Authority
24) Regional Mining Engineer - Geological Survey and Mines Bureau
25) Assistant Director - Coast Conservation Department
26) Assistant Director - Department of Wild Life Conservation

Annex - VI

Divisional level Land Use planning Committee (Divisional Level Stakeholder group)

1. Divisional Secretary(Chair Person)
2. Land use Planning Officer /Development Officer(Secretary)
3. Land Officer/Colonization Officer
4. Agriculture Instructor
5. Agrarian Development Officer
6. Range Officer
7. Assistant Superintendent of Survey
8. Extension Officer(Coconut, Palmyrah, Rubber)
9. Veterinary Surgeon
10. Environmental Officer
11. Representative from Northern Plantation Sector
12. Representatives from Land related NGOs
13. Representatives from Farmer Organizations

Annex - VII

Definitions

1) Protected areas - Areas where the lands will not be used for development activities such as Agriculture, Housing, Industry and Urban Development.

2) Unutilized areas - (a) State owned lands that remain unused

(b) State owned lands which are "utilized" illegally

(c) Privately owned lands that remain unused.

3) Underutilized areas - (a) Areas where only a part of the land is used

(b) Areas where the land is used occasionally

(c) Areas with low cropping density

(d) Areas with low crop yields.

4) Misused Areas - Areas where the present land uses are inappropriate.

Annex VIII

Criteria used to determine the Land Suitability for different uses

1. **The Factors that were considered to assess the lands for Agriculture**

Parameter	**Level -1**	**Level -2**	**Level -3**	**Level -4**
1. Slope	0-30%	30-40%	40-60%	>60 %
2. Soil depth	Very deep > 120 cm	Deep (120 – 60) cm	Moderately deep (60 – 30) cm	Shallow < 30cm
3. Soil erosion hazard	Nil	Slight	Moderate	High
4. Soil texture	Loam	Sandy loam	Sand	Sand with stones
5. Drainage	Well drained	Moderately well Drained	Manageable	Poorly Drained
6. Rockiness	Nil	Few	Significant	High
7. Water availability for cultivation	Water sources available within the land	Sources available close to the land	Sources available within manageable distance	Difficult to obtain water supply
8.Road Accessibility	Available to the land	Available close to the land	Available within manageable distance	Difficult to get

Based on the above parameters matrix, the land should be evaluated based for its suitability for Agriculture under appropriate category as follows:

Symbol	**Category**	**Parameters**
S1	Highly Suitable	If 1-6 parameters are at level - 1, 7-8 parameters are at level - 3 or below
S2	Suitable	If 1-6 parameters are at level -2 or below and 7 -8 parameters at level -3 or below
S3	Moderately Suitable	If 1-8 parameters are at level -3 or below
N	Not suitable	If any of the parameters are at level -4

2. The Factors that were considered to assess the lands for Housing

Parameter	**Level -1**	**Level -2**	**Level -3**	**Level -4**
1. Water availability	Water sources available within the land	Sources available close to the land	Sources available within manageable distance	Difficult to obtain water supply
2. Electricity	Electricity available	Electricity about to be supplied	Possible to get electricity	Difficult to get electricity supply
3. Telephone	Facilities are available	Facilities about to be supplied	Only Mobile coverage available	No coverage area
4. Transport facilities	Transport available to the land	Available closer to the land	Not available but can be developed	Very difficult to obtain transport
5. Environmental impact	Not significant	Mild problem could be expected	Could be overcome by planning	Very sensitive environmental issues will arise
6. Social impact	Very slight	Slight	Moderate	High
7. Drainage	Manageable	Unmanageable		
8. Rockiness	Possible to construct building	Impossible to construct building		
9. Slope	<45%	> 45%		

Based on the above parameters matrix, the land should be evaluated based for its suitability for Housing under appropriate category as follows:

Symbol	**Category**	**Parameters**
S1	Highly Suitable	If all (1-9) Parameters are at level -1
S2	Suitable	If 1-7 parameters are at level -2 or below and 8-9 parameters at level -1
S3	Moderately Suitable	If 1-7 parameters are at level -3 or below and 8-9 parameters at level -1
N	Not Suitable	If any of 1-7 parameters are at level -4 or any 8-9 at level -2

3. The Factors that were considered to assess the lands for Industry

Parameter	Level -1	Level -2	Level -3	Level -4
1. Water availability	Water sources available within the land	Sources available close to the land	Sources available within manageable distance	Difficult to obtain water supply
2. Electricity	3 phase electricity available	3 phase electricity about to be supplied	Possible to get electricity	Difficult to get electricity supply
3. Telephone	Facilities are available	Facilities about to be supplied	Only Mobile coverage available	No coverage area
4. Transport facilities	Transport available to the land	Available closer by area	Not available But can be developed	Very difficult to obtain transport
5. Environmental impact	Not significant	Mild problem could be expected	Problem could be expected, but Could be overcome by planning	Very sensitive environmental issues will arise
6. Population in surrounding area	Surrounding area is not populated	Surrounding area is slightly populated	Surrounding area is Moderately populated	Heavily populated
7. Availability of urban facilities for employees	Available within 1 Km	Available within 5 Km	Available within 15 Km	Available > 15 Km
8. Slope	<45%	> 45%		
9. Drainage	Manageable	Unsatisfactory		
10. Rockiness	Possible to construct building	Impossible to construct building		

Based on the above parameters matrix, the land should be evaluated based for its suitability for Industry under appropriate category as follows:

Symbol	Category	Parameters
S1	Highly Suitable	If all (1-10) Parameters are at level -1
S2	Suitable	If 1-7 parameters are at level -2 or below and 8-10 parameters at level -1
S3	Moderately Suitable	If 1-7 parameters are at level -3 or below and 8-10 parameters at level -1
N	Not suitable	If any of 1-7 parameters are at level -4 or any 8-10 at level -2

4. Factors considered in assessing the lands for Tourism development

1) Quality of beach /Beauty of the View

2) Condition for Swimming

3) Condition for Surfing

4) Proximity to Historical or Archeological Sites

5) Availability of infrastructure facilities

6) Social acceptance

7) Possible Environmental impact (Low, Moderate, High)

8) Closeness to the natural habitats