Kelaniya Development Plan 2021 - 2030





Urban Development Authority Ministry of Urban Development & Housing



Kelaniya Development Plan 2021-2030



Ministry of Urban Development & Housing Urban Development Authority

Kelaniya Development Plan 2021 - 2030

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Kelaniya Development Plan 2021-2030 mainly consists of three parts as Part I, II and III. The part I consists of the background of the development plan, backround study, the need of the Plan, the planning framework, the SWOT analysis & the plan. The Part II consists of the Planning and Building Guidelines and Zoning Guidelines pertaining to the planning boundary for the period of 2021–2030. The Part III consist of the zoning boundaries with the coordinates and all the annexures.

Kelaniya Development Plan 2021 - 2030 has been prepared by the Gampaha District Office - Western Province Division, Urban Development Authority.

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Acknowledgement

Western Province Division has taken the lead to provide the supervision for the preparation of the Kelaniya Development Plan 2021 – 2030. The objective of this plan is to identifying future development trends incorporating physical, economic, social and environment sectors in the Kelaniya Pradeshiya Sabha (PS) area. The vision of the Kelaniya Development Plan 2021 – 2030 is in line with the 'Vistas of Prosperity and splendour' the government policy direction of the His Excellency the President Gotabaya Rajapaksa.

It is our proud privilege to Honourable Mahinda Rajapaksa subject Minister of Urban Development & Housing for approving the Kelaniya Development Plan 2021 – 2030 under the provision of Urban Development Authority Act No. 41 of 1978 as amended by the Act No. 04 of 1982. Further, it is our privilege to Dr. Nalaka Godahewa, State Minister of Urban Development, Coast Conservation, Waste Disposal and Community Cleanliness and Mr. Sirinimal Perera, Secretary to Ministry of Urban Development & Housing for their guidance and supports in this process.

Special gratitude offered on behalf of the planning team and the UDA, to the Chairman, Kelaniya Pradeshiya Sabha (Kelaniya PS) members of the PS and the staff. Secretary Kelaniya Divisional Secretariat and the staff for their generous support given for the successful completion of this development plan.

Also, special appreciation on behalf of the UDA offered to all institutions representors and people who live in this area for giving data and directives required for the preparation of this plan.

Appreciatively thankful to Chairman of UDA Archt. Harshan De Silva, Director General of UDA Plnr. N.P.K. Ranaweera, Additional Director General of UDA Plnr. H.A. Dayananda, Deputy Director General (Planning) of UDA Plnr. M.P. Ranatunga, Director Western Province Division of UDA Plnr. N.A.S.N. Nishsanka Consultant (Legal) of UDA Attorney at Law C. Jayawardena, Director (Strategic Planning) of UDA Plnr. Priyani Nawarathne on behalf of the planning team for their incomparable courage, guidance and welcoming support.

In the end, Director – Environment & Landscape division L. Arct. C.K.E. Kalupahana and the staff of the division and Director - Geographical Information System & ITS Plnr. J.P.S. Somasekara and the staff of the division and the staff of the division, Gampaha District office of the UDA and staff members of all divisions are gratefully appreciated on behalf of the planning team for their support to the successful completion of this task.

Hon. Minister's Foreword



The Urban Development Authority was established under the Urban Development Authority Act No. 41 of 1978, for the systematic planned urban development in the declared urban areas and continue to actively contribute towards it.

Steps have been taken to formulate comprehensive development plans for each urban development area, based on the efficient and effective use of physical space so that all

areas of Sri Lanka make an equal contribution to the development process of the country. The Kelaniya Town provide services to a large population. Accordingly, Kelaniya Pradeshiya Sabha Planning Area has the potential to become a town that continues to provide residential and commercial services. This potential is further enhanced by the natural ecosystem of the surrounding area and the locations of archeological sites of value. These development plans aim to develop the Kelaniya Town by utilizing the potential of the area.

For the realization of His Excellency the president's vision "Vistas of Prosperity" the new Re-urbanization Programme has been formulated in wide consultation with Professionals, Specialists, Stakeholders & communities with strategies having an excellent technological methodology and innovativeapproach.

Accordingly, I commend the Chairman of the Urban Development Authority, the Director General, the planning teams and all the officers of the Urban Development Authority who assisted in making this work a success. Further, I also appreciate and believe through the support and contribution of the relevant Local Government Institutions, Public and Private Sector Institutions and the general public, Kelaniya Development plan would be successfully implemented.

Hon.Mahinda Rajapaksa (M. P) Minister of Urban Development & Housing

Hon. State Minister's Foreward



As a pioneer in Sri Lanka in achieving modern sustainable development goals, the Urban Development Authority has a great responsibility. Accordingly, it is essential to prepare development plans for the Urban Development Areas declared by the Hon. Minister in charge of the subject in terms of the Urban Development Authority Amendment Act No. 04 of 1982 (Part II, Section 8A (1)).

The development plans thus formulated are primarily aimed at building a productive citizen,

a happy family, a dignified society and a prosperous nation, which are the core aspirations of the vistas of prosperity. I also believe that these development plans will go a long way in achieving the objectives of urban development and regulation through a formal reurbanization plan that will bring economic stability to the urban population.

Therefore, I would like to express my heartfelt gratitude to the planning team and to all those who have played a very responsible role in preparing this plan and I hope that you will all contribute to the expectations of the vision of prosperity.

Dr. Nalaka Godahewa (M.P) State Minister of Urban Development, Coast Conservation, Waste Disposal and Community Cleanliness

Hon. Chairman's Foreword (UDA)



Throughout the last four decades, Urban Development Authority has been serving as the apex planning authority in Sri Lanka having the statutory powers to prepare and enforce urban development plans.

Urban Development Plans cover a number of fields including optimum, effective and efficient use of land and managing the quality of its environment. These development plans are prepared for the promotion and regulation of public well-being in urban areas

and the people. According to the present government's manifesto, it is compulsory to prepare development plans for areas which have been declared as urban development areas by the subject minister as per section 8 A (1) under part II of Urban Development Authority Act No. 04 of 1982 (Amendment).

The Development Plan for Kelaniya PS area has been prepared for the period 2021 – 2030 considering the physical, economic, social and environmental factors, while successfully overcoming the challenges in preparing the development plan through tools and methodologies with which the Urban Development Authority is equipped.

Therefore, I extend my heartfelt gratitude to the planning teams who dedicatedly worked for ensuring successful completion of this plan and to those who contributed in numerous ways. At the same time, I also expect that all parties who contributed for the preparation of this plan will also effectively contribute in future as well for successful implementation of the plan.

Archt. Harshan De Silva Chairman Urban Development Authority

Hon. Chairman's Foreword (Kelaniya PS)



The UDA, which has been a pioneer in the development of Sri Lanka's urban development for four decades, joined hands with local authorities and aligned to create benevolent towns to live in all urban areas with a proper landuse pattern. More weight for quality & balance of development in the physical, economic, social and environmental sectors have been added to the UDA due to the declaration of Kelaniya PS area in 2001 as an urban development area and belongs to the Colombo Core Area from 2017. The PS also plays a significant role in this development process as administrative institution and completely

accomplished their responsibilities for general welfare of the public.

Accordingly, Kelaniya Urban Development Plan for the period of 2019 - 2030, has been prepared by the Gampaha District Office of the UDA and further, development intensity of the area has been focussed into better direction under the legal framework. It targets the future residential community as well as the urban commuting population coming for their daily needs and integrates economic & social benefits through existing development potentials. Not only that this development plan will guide Kelaniya, towards the high urbanized green city with proper infrastructure facilities while protecting its sacred sense. I, and community leaders will give our fullest cooperation to achieve this vision at near future.

W.D.S. Kumudhini Chairman, Kelaniya PS

Preface

Kelaniya PS area declared by the UDA under the Gazette Notification No. 1771/10 in 13th February 2001 by the Minister incharch of the subject of Urban Development as an urban area and recently area belongs to "Core area of the Metro Colombo Development Region". Accordingly, Kelaniya Development Plan has been prepared for the time period of 2021 -2030.

The basis for the preparation of development plan can be identifed as the data collection in relation to the year 2012/2019 and the data collected from the field service carried out. And analysis of collected data by using the sciencetific methods of analysing and coming to the conclusions upon them. Accordingly, the new development plan for Kelaniya PS area has been prepared for the 2021-2030 period, by utilizing the results and the decisions have been taken at various times in the development planning process and with the practical process and mixing of the same with the practical aspects of the Kelaniya PS area.

Kelaniya development plan 2021-2030 consists 3 main parts such as part I, part II and part III. The part I consists of the backround of the development plan. backround study, the need of the plan, the planning framework, the SWOT analysis and the plan. Part II consists of the planning and building Guidelines and zonning Guidelines pertaining to the planning boundary for the period of 2021-2030. The part III consists of the zonning boundaries with the cordinates and all the annextures.

Part I – Chapter 1 of the plan detailed out the meaning of the team development plan, its legal context, the stakeholders of the plan, its context and the planning process followed. Chapter 2 and chapter 3 respectively include the Kelaniya PS area. history of the area, boundary delineation of the area and need of the plan in detail. Chapter 4 consists vision, goals and objectives and strategic plans while chapter 5 include the detailed descriptions on the baseline SWOT analysis for each goal. Further, chapter 6 of the plan describe the conceptual plan and proposed landuse development plan. Under that the main strategic plan of the Kelaniya development plan such as road and transport development strategy, sustainable environment development strategy, economic development strategy, in frastructure development strategy and implementation strategy has been detailed out as subsections.

Similary, part II -Chapter 7 has been dedicated to describe planning and building Guidelines and in chapter 8 describe the indentifed zones and zoning Guidelines and chapter 9 included proposed road width, building line and reservations.

Thus, the intention of this authority and the government of Sri Lanka is to implement the Kelaniya development plan 2021-2030 in near future.

APPROVAL OF THE DEVELOPMENT PLAN FOR THE KELANIYA PRADESHIYA SABHA AREA

I, Mahinda Rajapaksa, Minister of Urban Development and Housing do hereby approve the development plan for the Kelaniya Prashiya Sabha Area, having considered the recommendation made by the Board of Management of the Urban Development Authority on 24th September, 2020 by virtue of the powers vested in me under section 8 "F" of the Urban Development Authority (Amendment) Act No.4 of 1982.

Out Gring.

Mahinda Rajapaksa (M.P) Minister of Urban Development and Housing

Ministry of Urban Development and Housing,

17th and 18th Floors,

"Suhurupaya",

Sri Subhuthipura Road,

Battaramulla.

Date: March, 2021.

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Government Notifications

APPROVAL OF THE DEVELOPMENT PLAN FOR THE KELANIYA PRADESHIYA SABHA AREA

I, Mahinda Rajapaksa, Minister of Urban Development and Housing do hereby approve the development plan for the Kelaniya Pradeshiya Sabha Area, having considered the recommendation made by the Board of Management of the Urban Development Authority on 24th September, 2020 by virtue of the powers vested in me under Section 8 "F" of the Urban Development Authority (Amendment) Act, No. 4 of 1982.

MAHINDA RAJAPAKSA (M. P.), Minister of Urban Development and Housing.

Ministry of Urban Development and Housing, 17th and 18th Floors, "Suhurupaya", Subhuthipura Road, Battaramulla, 30th March, 2021.

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NOTICE OF APPROVAL OF THE DEVELOPMENT PLAN FOR THE PRADESHIYA SABHA LIMIT OF KELANIYA

NOTICE is hereby given to the General Public of the Democratic Socialist Republic of Sri Lanka under Section 8 (G) of the Urban Development Authority Law No. 41 of 1978 as amended by the Act, No. 4 of 1982 that I, Mahinda Rajapaksa, the Minister in charge of the subject of Urban Development & Housing, by virtue of the powers vested in me under Section 8 (F) of the said Act, have approved the Development Plan for the Pradeshiya Sabha Limit of Kelaniya, prepared under Section 8(A) of the said Act on the 30th day of March, 2021.

MAHINDA RAJAPAKSA (M. P.), Minister of Urban Development & Housing.

Ministry of Urban Development & Housing, 17th and 18th Floors, "Suhurupaya", Subhuthipura Road, Battaramulla, 12th July, 2021.

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APPROVAL OF THE DEVELOPMENT PLAN FOR THE PRADESHIYA SABHA LIMIT OF KELANIYA

PUBLIC are hereby informed that the Development Plan prepared for the Pradeshiya Sabha Limit of Kelaniya under Section 8 (A) of the Urban Development Authority Law, No. 41 of 1978 as amended by the Act, No. 4 of 1982, has been approved on 30th March, 2021, by Hon. Mahinda Rajapaksa, Minister of Urban Development & Housing, by virtue of powers vested on him under Section 8 (F) of the said Act.

Archt. HARSHAN DE SILVA, Chairman, Urban Development Authority.

12th July, 2021.

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Background of the Development Plan

Chapter 01 Background of the Development Plan

1.1 Introduction

It is expected to prepare a methodical Development Plan for a selected area in keeping with the identification of potentials of the area specifying future vision thereby physical, social and economic improvement of the people are achieved. Urban Development Authority (UDA) of Sri Lanka is the authorized institution for preparing Integrated Development Plans for development areas declared under UDA Law No. 41 of 1978. It is also empowered to UDA to prepare integrated development plans with the provision under Section 8 a (1) of UDA Amendment Law No. 4 of 1982.

Accordingly, Kelaniya area within the Kelaniya Divisional Secretariat part of 1987 was established as a DSD and also declared as an urban development area under Section 3 of UDA Law No. 41 of 1978, as per Extra Ordinary Gazette No. 1171/10 dated 13th February 2001. Yet there is proper Development Plan is prepared until 2018. Hence as per strategic plan for the period of 2018-2022 of the UDA, it is decided to prepare a Strategic Plan for Kelaniya PS area. Accordingly, an attention has been focused in preparing a Physical Development plan for urban development areas and also considering the complexity of urbanization and decided to prepare a Strategic Plan for Kelaniya PS Area. Accordingly, a Strategic Plan has been prepared for Kelaniya PS Area as a divisional level plan covering the period of 2021 – 2030. This Development Plan Intends to minimize urban congestion, protecting natural environment and heritage of Kelaniya Sacred Area and development of socio-economic development expedient.

The Eighth Policy discusses the "New approach in National Spatial System" under the tenfold key policies contained in the current Government National Manifesto. It will restructure the entire urban environment, introduce a C-shaped economic corridor that connects all intermediate cities and physical areas which giving the access to major ports and airports is expedited. Among the four multi-dimensional commercial cities, connecting cities, national cities & cluster cities, Kelaniya can be identified as an intermediate city with economic value centered on the Port of Colombo. Accordingly, steps have been taken to formulate plans in the Kelaniya Development Plan taking into account the new approach of spatial system through the National Manifesto.

1.2 Stakeholders of the Development Plan

All responsible officials of all state and private agencies and communities were linked for preparing Kelaniya development plan for the period of 2021 – 2030. Thus it was expected to obtain instructions and proposals from relevant organizations of the areas.

Key Stakeholders

1. Kelaniya PS

Key Instructive Organization

- 2. Kelaniya Temple
- 3. Kelaniya Divisional Secretariat Office
- 4. National Physical Planning Department
- 5. Road Development Authority
- 6. Sri Lanka Land Reclamation & Development Corporation
- 7. Wildlife Conservation Department
- 8. Archaeological Department
- 9. Central Environment Authority
- 10. Irrigation Department
- 11. National Housing Development Authority
- 12. National Water Supply and Drainage Board
- 13. Ceylon Electricity Board
- 14. Sri Lanka Electricity Private Company

Stakeholders Groups

- 15. Zonal Education Office
- 16. Road Passenger Transport Authority
- 17. Trade Union Kiribathgoda
- 18. Kiribathgoda Sinhala Trade Union
- 19. Bus Saviya/ Three-Wheeler Association
- 20. Agrarian Service Center
- 21. Department of Export Agriculture
- 22. Kelaniya Police Station

1.3 Scope of the Development Plan

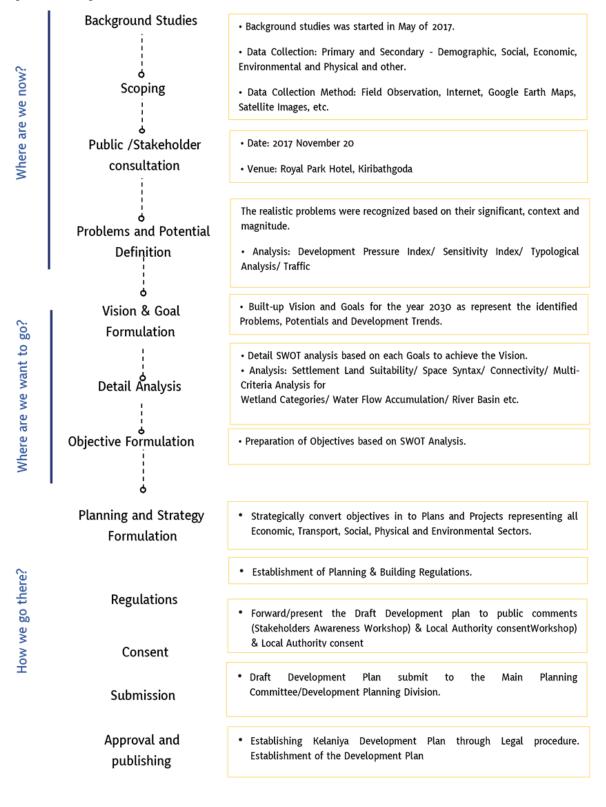
Kelaniya is located at the urban fringe of Colombo CBD from the past. Location of Historical Kelaniya Rajamaha Vihara is one of the main Buddhists Viharas in Sri Lanka and a most hereditary values to the area. Consequently, the urban problems are emerging in this area which should be address through planning intervention. However, minimizing physical and social improvement in this area is essential land as a result attention has been focused to prepare a Strategic Urban Development Plan for the Kelaniya PS Area.

As per the current government National Manifesto discussed the "New approach in National Spatial System" in eighth policy & that led to restructure the entire urban environment. This "New approach in the National Spatial System" introduced city structure as follows: Multi-dimensional commercial cities, connecting cities, national cities & cluster cities. Considering the national spatial structure guidance, Biyagama can be identified as an intermediate city with industrial economic value centered on the Port of Colombo. Accordingly, steps have been taken to formulate plans in the Biyagama Development Plan taking into account the new approach of the spatial system through the National Manifesto.

Vital attention is focused to this plan to create an urban greening city in protecting sacred and hereditary of Kelaniya Sacred Area with directing modern development with efficient transport facilities. Planning has been prepared taking accounts of cultural and heritage. This is a divisional level strategic plan prepared considering as Kelaniya DS area. Although vision was up to the year 2030 which may go beyond 12-year period though attractive development would be considered. However historical, cultural and religious specification, more attention would be taken for its genetic limitations.

1.4. The Planning Process

Figure 1.1 Planning Process



As per Figure 1.1, an entire planning process of the Kelaniya DS area is shown mainly under 3 stages. Firstly, where are we now? Secondly, where we want to go and Thirdly, how we go there?

Accordingly, within the month of May 2017 as a first stage of the planning process: existing situation and identification of development plan have been identified. Data related to historical, social, economic, environment and physical factors have been collected with the use of Google area Map, photograph etc. Especially data of Kelaniya DSD and PS are the main sources. For this, data has been stored in Geographical Information System by using GIS data and observation of spreadsheets, Google maps have been analysed in a zonal context. After such studies of stake holder's public hearing sessions held on 20th November 2017 at Royal Park Hotel, Kiribathgoda.

All stakeholder perceptions were analysed using NVIVO technique. It was fully conducted cooperating with Strategic Planning Division. The realistic problems were recognized based on their significant, context and magnitude though the NVIVO analysis, Development pressure, Space syntax, Sensitivity, Typological analysis, Traffic, NDVI and literature reviews etc.

As a second stage, where we want to go and managing potentials and development trends aims at timely urban development. Accordingly, to achieve the vision, there are three purposes. As per next stage under comprehensive analysis SWOT was done. Accordingly, purposes were adjusted in order to avoid weaknesses and threats. Ascertaining of strength and opportunities in the Zone, all opportunities under this planning process are integrated with the above stages.

Under final stage, preparation of strategic planning road and transport, historical inheritance, economic, social, and physical and environment components have been transformed into strategic physical planning. Accordingly, it is expected to order of strategic priorities implemented practically. Finally, in order to implement these proposals in the real landuse planning and Guidelines suite to above planning process has been established.

Under obtaining approval for the draft development plan on local government officials and public have been submitted. Public opinion and permission of divisional authority had been obtained through a workshop held for stakeholder's awareness meetings. Obtaining ideas and proposals as above, necessary adjustments have been inserted and finally draft plan is submitted to main planning committee of development planning division. After this process, development plan for 2021-2030 Kelaniya DS area legally established and declare for implementation.

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Preliminary Study

Chapter 02 Preliminary Study

2.1 The Study Area

Kelaniya PS area is located at Siyane Korale Adhikari Paththuwa in Gampaha District in the Western Province. It is 12Km from the Colombo commercial city and also 8Km from Sri Jayawardenepura Kotte, the Administrative Capital City. Kelaniya area is administratively under Kelaniya DSD and it is one of two local government authority areas in that Divisional Secretariat Division (DSD)

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Figure 2.1 Study area

Source: Google Map/ Planning Team – Gampaha District Office, 2021

Kelaniya PS area belongs to low country wet zone in the south western plains. Mainly southern part of the Kelaniya PS area is bounded by Kelani river which flowing from Samanala Mountain. Apart from that from eastern Biyagama PS limits, from northern Mahara PS limits, the Wattala and Peliyagoda Urban Council limits are located around the Kelaniya PS area. Thus, the Kelaniya PS has consisted with 30 Grama Niladhari Divisions as mention in map 2.1.

2.2. Planning & Situational Context

Kelaniya area is a long historical inheritance which may even go above Anuradhapura and Polonnaruwa Kingdoms. It runs up to 6th Century B.C. According to Mahawansa Legend, early community in Sri Lanka lived in areas associated in Kelaniya River and Nagadeepa (Nainathiev). Naga community was there in these areas and it identified as "Kelani Nagar"

After 8 years of enlighten Gautama Lord Buddha has arrived Sri Lanka onhis 3rd and Final tour. Kelani Nagar claimed highly historical and religious significant. At that time, Maniakkitha Naga King's invitation, Lord Budhdha arrived Kelaniya and settled the quarrel between Chullodara and Mahodara brothers for a Gem embossed Chair. And later, that gem embossed chair had been kept safe in a (Chethiya) Pagoda of this premises which is presently known as a Kelaniya Chethiya Nationally & Internationally thereby millions of people pay highly as respected Buddhist religious premises. Relevant photographs are shown in figure 2.2. After pressure of this historical religious background, entire Western coastal belt had been ruled by King Kelanithissa. Subsequently, this kingdom was transformed into Kotte Kingdom.

Figure 2.2 History of Kelaniya Vihara and arrival of Lord Buddha



Source: Lankapura Website, 2010

With the historical and cultural pressure in the statistics of Kelaniya Temple indicate that there are 10,000 to 20,000 people arriving to Kelaniya Temple daily and it increase up to 75,000 to 100,000 people during the full moon day. And also, Kelaniya Duruthu Maha Perahara holds annually as a cultural festival event for which more than 200,000 people gather conjointly. Thus, Kelaniya is recognized as a historical and Holy Township could be identified as a highly significant announcement.

Although this area is very much closer to Colombo city, there was a natural physical constrain of the Kelaniya River. After early 19th Century with the construction of Colombo- Kandy main road, Kelaniya Bridge and Main Railway Line Kelaniya is more interrelated to Colombo city than Gampaha town although Kelaniya is within the Gampha Administrative District. As a result, during the year 1948 the plan prepared by Patrick Abercrombie and Greater Colombo Plan of 1978 include Gampaha and Kalutara districts are integrated in Colombo Metropolitan area in addition to Colombo District. Although this area is belonged to Gampaha District, the physical, social, economic and functional linkages are combined with the Colombo city. It further cleared that urban planning done for Colombo city is allied to Gampaha districts as well.

As mention in annexure 03, Possibilities are existed to link with National road network which runs Colombo - Kandy main Highway and main railway line linking through Hunupitiya, Wanawasala and Kelaniya closest rai lway stations. Apart from that the expressway interchanges of Kaduwela, Kadawata and Peliyagoda in Colombo – Katunayake and Outer Circular Expressway are located closer to the Kelaniya PS area while providing easy linkages to many regional centres in the Island. Since direct influence of various transport means, this area is highly linked with national and regional areas. In addition, Kiribathgoda, Hunupitiya and Makola 'B' class roads network has close relationship with the towns in the region. Further Sirimewan Kelaniya Bridge helps a close linkage with the administrative capital with the distance of 8Km. This bridge also backings the connections with Egoda Kelaniya and Megoda Kelaniya. Thus, this locational advantage leads for attracting and accommodating high residential population specially who employed Colombo and adjacent areas and also Peliyagoda, Biyagama & Katunayake industrial Zones.

Thus, in the year 2021, Kelaniya Divisional Secretariat area counts a total population of 137,339. This represents 5 % from the total population in Gampaha District and it is spreading over 23.1 Sq.km land area. Population data revelled that high density of population exists in Kelaniya Divisional Secretariat area from whole DSDs in Gampaha district. Population density of Gampaha District is about 1,700 people per Sq.km. whereas population density in Kelaniya Secretariat Division is about 5,945 people per Sq.km. It has mention in figure 2.3 and 2.4. But Kelaniya PS area which consist with 17.9 sq.km, has recorded 6,218 persons per sq.Km.

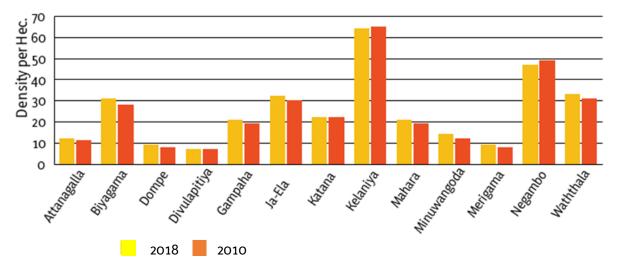


Figure 2.3 Population Density (2010-2018) in Divisional Secretariats of Gampaha District

Source: Department of Census and Statists, 2015/ Planning team-Gampaha District Office, 2021

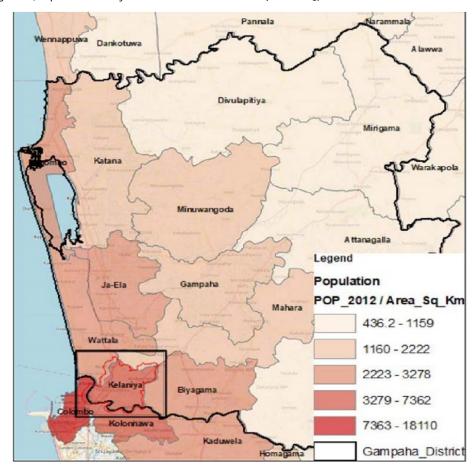


Figure 2.4 Population Density of Divisional Secretariat Areas (2010-2015)

Source: Department of Census and Statists, 2015/ Planning team-Gampaha District Office, 2021

As per Annexure 04, high density could be visible in GND of Hunupitiya, Nahena, Eriyawatiya and Wanawasala areas where there are about 80-100 person per hectare. With the expansion of commercial, industries and stores a thin population density is prevalent Kiribathgoda, Thalawathuhenpita South, Thalawathuhenpita North and Wedamulla which are somewhat closer to Colombo- Kandy main Highway. This area consists of various communities and religious groups out of whom Buddhist are the major religious group thereby Buddhist counts 75%, Catholic community counts 19% and 6% counts other religious communities.

Population Growth Rate from 2001 to 2012 was 0.75 % in Sri Lanka and Gampaha District Population Growth Rate was 1.05% as reported in Census and Statistical data overall natural growth rate is 0.45 % in Kelaniya Divisional Secretariat Area also there is a trend of increasing population growth rate from 1981 to 2016 as mention in table 2.1, considering the natural growth rate, the total population would be 117,000 during the year 2030.

Year	Natural Average Growth Rate	Population
1981-2001	0.23	104544
2011	0.45	107853
2018	0.45	109603
2030	0.45	117135

Source: Dept. of Census and Statistics – 2011 and Resource Profile, 2018

Theis consist with high population density and also a high population increasing trends. As a result of that 58% from the landuse of Kelaniya PS area is covered by residential use as shown in Annexure 05. The availability of well-connected regional and national road network, favorable living environment and availability of higher educational facilities affect to attract and accommodate more students and employers in this area. Thus, housing density in the Kelaniya PS area is 1,463 persons per sq.km.

Table 2.2 Housing units and Residential Density - Kelaniya (2018)

Kelaniya DSD	Housing Units	33404
	Housing Density-per Sq.km	1876
Kelaniya PS area	Housing Units	26339
	Housing Density-per Sq.km	1463

Source: Resource Profile Kelaniya Divisional Secretariat 2018

Although overall housing density counts 1463 units per sq. Km, as it shows in Annexure 06, It indicates that housing density in Nahena, Hunupitiya, Eriyawetiya, and Sinharamulla has increased by more than 2,000 housing units. Data reports of Divisional Secretariat revealed those temporary and semi-permanent housing units' counts 8%. Many temporary housing units are visible mostly in Pilapitiya, Nilamegewatta, Mahena, Kelaniya River north bank, and Railway reservation areas.

Attention has been focused further increase of population at national context. According to Draft National Physical Plan 2018-2050 prepared by the National Physical Planning Department, the Kelaniya PS area is falls into East and West Economic Corridor out of four main economic corridors proposed under National Physical Plan, 2050. As mention in Annexure 07 further, it has proposed to increase the population by 20% - 25% in East- West economic corridor. Accordingly, based on this proposed population density, 6000 – 10000 of persons per sq.km is expected in east- west economic corridor and Kelaniya PS area also belongs to this economic corridor. It may give direct impact to rest of other areas in this region. Also based on other regional planning interventions, as express in annexure 08 Western province regional structure Plan – 2030, the area within the Outer circular expressway has identified as a high-density area. Considering economical functional of the area, Kelaniya could be known as commercial and service-oriented centre in the region due to the location of Kiribathgoda town. According to the Colombo Metropolitan Regional Structural Plan (CMRSP) of 1998, Kelaniya area is included to Biyagama Growth Centre. And Kiribathgoda is a 4th order town in the region as mention in Annexure 09. Accordingly, it has proposed to develop Kiribathgoda as an Urban Service centre. As per Annexure 10, Kiribathgoda is branded as 2nd order town centre among the towns in the Gampaha District according to Gampaha hierarchical of town centres. In considering road correlation in the region Kiribathgoda is analyzed as 1st order towns as it revealed in Annexure 11. According to the figure 2.5, in the year 2016 Kiribathgoda town is publicized as upcoming regional and national commercial centre where large number of major readymade garments trade complexes are available during the day and night. Thus, Kiribathgoda town was noted as growing commercial centre in the Western Region. In addition, Hunupitiya, Tire Junction and surrounding area of Kelaniya Campus, Makola Road, Kelaniya Sacred area, are lengthened commercial activities and 5% from total land extent of the area is consist with commercial uses.



Figure 2.5 Commercial centres in the Western Region

Source: Lang LaSalle Report, 2016

Western Province Regional Metropolitan Plan (CESMA) 2004 reveals that this region known as different economic zone specifying Peliyagoda industrial, stores & warehouse development. Vital of Industries and warehouses which located based on the Colombo Port and Colombo – Katunayake Expressway interchange has become one of the major economic bases in the area. According the annexure 12, considerable number of industries is in Kelaniya DSD area. Among them 400 of metal production and equipment industries are in this area. Larger scale industries such as Tire, Kelani Cables, Akbar Brother etc. and Small industries like polyethylene, brass, food processing etc are stretched mostly in this area. It is only about 6% of land area is consisted with industrial use which represents medium scale industrial usage in the Gampaha District. These industries meet the supply towards local and international level demand in the country. Due to lack of high land area for industries, many of low-lying land areas are now converted into warehouses & stores in order to meet high demand for the spaces for such activities. This high demand adversely affects causing many land areas are developed haphazardly even close to the sacred area of Kelaniya.

Presently, the areas used for industrial activities were highly made use of clay industries in the past. Now National shilpa Sabhawa owned a Clay Factory established placing Galborella and Sinharamulla in 1925 as per information available at this Centre. It is one of 200 such shilpa Sabhas in the entire country. It should be noted that this place is the 1st Clay Factory in the country. The clay industries are vastly carried out by villagers concentrating Kelaniya Sacred area is presently weakened vastly. Today only around 35 villagers are engaging in clay industrial activities and have relationship with the Shilpa Sabhawa. This industry is purely playing a somewhat a minor role in meeting economic stability in the area.

As stated in Annexure 13, the employment ratio in this area is 94% and 58% from the total employer is in the private sector. The location close to the Colombo CBD, Industrial areas and Free Trade Zone, such as Biyagama, Sapugaskanda, Kerawalapitiya and Katunayake are the reason for accommodating this kind of employment rate within this area.

Kelaniya University holds specialty sphere under social and physical infrastructure in the area. A remarkable change in the field of national education has been shown with the establishment of Kelaniya University in this area. In addition, about 23,509 students are engaged in 10 secondary schools and in 9 primary schools within the Kelaniya DSD.

With the congregating many people seeking accommodation in the area around Kelaniya, there seems to be a threat to Buddhist religious performances even though Lord Buddha arrived Kelaniya in the past as described in the background of this chapter. At the same time, Kiribathgoda town exists as a service providing centre thereby there is a trend for reclaiming lowlying lands for the purpose of expanding industries and stores activities.

Geographically, Kelaniya is in the South Western Low Country Plain. Kelaniya River flow southern edge of the divisional secretariat area and 6km length of river front is included to Kelaniya PS area. And this whole area belongs to Kelani river basin. This area is very much closer to Western costal Area of Sri Lanka having a large area of Marshy lands. When consider the contours of the area as express in annexure 14, 20% from the entire land area is below the sea level and other lands are only 7-15 feet above the sea level.

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As an area which closer to sea level, 15 % of entire land consists of wetlands. It has shown in annexure 15. In considering soil in the area, its expansion contains red, yellow, alluvial soil in the river basin. Average annual rainfall is about 2,219mm and gets rainfalls from monsoon and inter monsoon annually. Average temperature is 280c. However, with the existing high urbanization, it may increase in the future as well. As per factor of environment indicates, this area could be considered as high & medium environment sensitive area. It has shown in Annexure 16.

Apart from that except 15 % wetlands and 2 % water areas, 83 % of the entire land could be considered as developable lands. Accordingly, this developable land of 83 % is a mixture of residential, commercial, industries, educational, religious and open lands. Annexure 05 shows that 58 % of the entire land area is mainly covered with residential use in the year 2017.

2.3. Delineation of the Planning Boundary

Attention has been fascinated in considering delineation limits of physical & geographical, administrative and nature of functions in determining the perimeter of development planning.

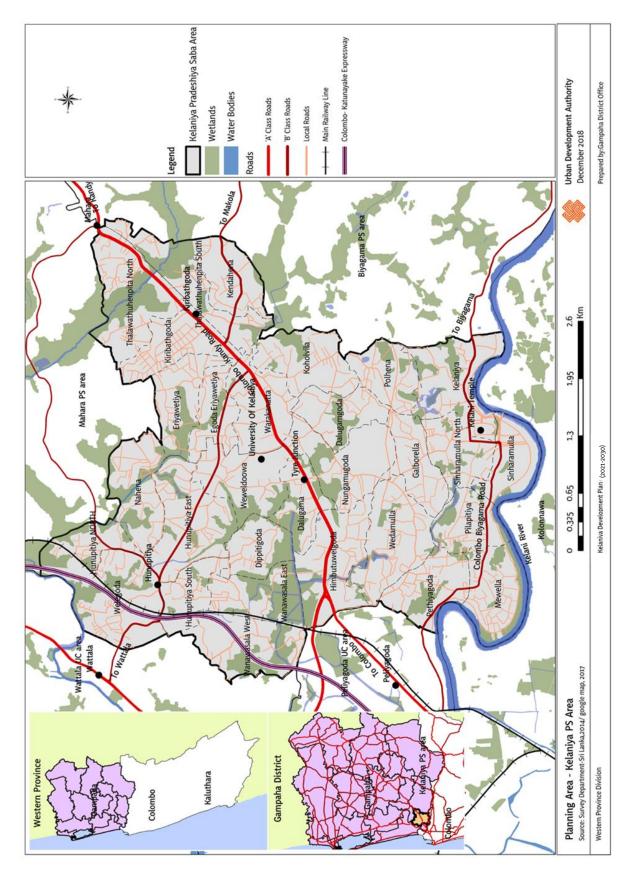
As functional character, Kiribathgoda town is functioning as a main town centre with essential services for both local and regional area. Kadawatha and Peliyagoda town also functioning as main town centres both side of Kelaniya PS area. It has mention in Annexure 18. According to the Annexure 17, when consider the development pressure of the area, it is mainly agglomerate in and around the Kiribathgoda, Peliyagoda and Kadawatha main town centres as different segments. Therefore, based on the Kiribathgoda high development pressure area which spread toward the Hunupitiya and Makola areas, Kelaniya PS area can clearly identified as the local area which functioning with the Kiribathgoda urban service centre. Due to the location of Kadawatha and Peliyagoda interchanges close to Kelaniya area, directly connected with the national road linkage with short distance.

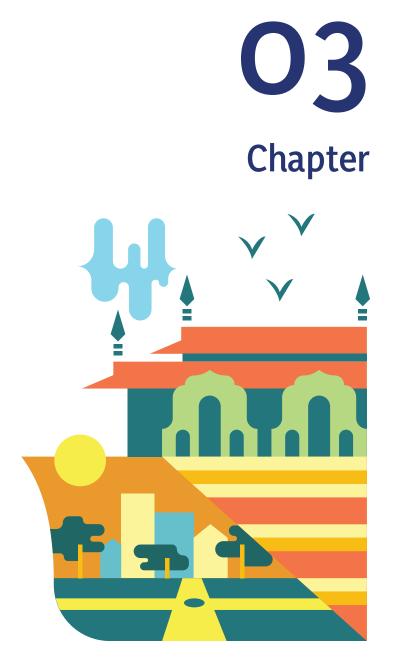
In geographical and environmental aspect, Southern part of the area is bounded by Kelani River and north eastern side of the area is bounded by Kalu Ela as a main environmental feature.

In the administrative aspect, before 1977 Kelaniya DSD area is consisted with whole Peliyagoda, Kelaniya and Biyagama areas. But due to the spacial case regarding the establishment of Biyagama export processing zone, Biyagama was administrated as a separate DSD area. Therefore, at the present, Both Peliyagoda UC area and Kelaniya PS area is included to Kelaniya DSD area. The present, Kelaniya PS area is declared in 12.05.1987 under the extraordinary gazette No. 453/6 as a PS area.

According to that, based on all environmental, physical, functional and administrative aspects, Kelaniya PS area is identified as the Kelaniya PS area considering the administrative convenience. Because southern and north east boundaries of the PS area is naturally demarcated by the Kelani river and Kalu Ela respectively and both Peliyagoda and Biyagama area has a different character as a close connection with Colombo capital and as a specific industrial area respectively. The area is bounded by Wattala UC & Mahara PS area from north, Biyagama PS from east, Kelani River from south and Peliyagoda UC from west. The Kelaniya PS area is consisting with 17.9 km2 of total land extent with 30 of GN divisions. According to the Global Positioning System Coordinates, the city is in 6 54' – 6 59' North Latitude and 79 53' – 79 57' East Longitude.

Map 2.1 Planning Area





Need of the Development Plan

Chapter 03 Need of the Development Plan

Kelaniya is a highly developing area with close connectivity in and around Colombo commercial capital. Kelaniya DS area is the highest densely populated area out of all divisional secretariat areas in the Gampaha District and it counts around 5,900 persons per sq.km. This area is a large residential roaming end with the easy accessibility to main employment generating areas of Colombo, Biyagama, Peliyagoda and Katunayaka. Complexity and steadiness of Kelaniya urban area is increasing with the location of Colombo – Katunayaka Expressway and Kadawata interchanging exist of Southern Expressway linking south and central regions through Colombo Outer Circular Expressway. Because of that, whole Kelaniya PS area is included to the Core Area of the Metro Colombo Development Region which gazette under the extraordinary gazette no. 2049/11 – 11th December 2017.

Under this complexity, there are also hidden potentials for development in this area. Therefore, in order to manage these potentials, there is a need for a development plan to overcome existing and arising issues. Planning need has identified based on the stakeholder's discussion of the issues and suggestions. The list of stakeholder views has mention in Annexure 19. Subsequently, based on those ideas and basic studies, needs of the development plan can be analysed as follows.

3.1 Declining of the sense of place which created the identity of the Kelaniya due to its Religious, Cultural and Historical importance.

Kelaniya is the Aryan Settlement even overrunning the history of chronological towns such as Anuradhapura and Polonnaruwa. It was a historical religious and culturally precise valued town in the island with the arrival of Lord Buddha's as 3rd visit to Sri Lanka. Sri Lanka gained values and identification to this country along with religious and cultural heritage for the entire country. Further, Kelaniya Duruthu Maha Perahera which holds annually is known as one of the major cultural events in the country that could be a national identification.

According to planning point of view, Place of Attachment, Place of identity and Sense of Place would illustrate the quality and personal relationship with the place in considering history and religion. Comparing old cities like Kandy, Anuradhapura, Kataragama, Mahiyanganaya, Nagadeepaya and Kelaniya herein mentioned as it well shows clearly & pure, but when entering to the Kelaniya Sacred area such sacred sense does not come into mind compare to other such sacred towns. Because, although Kelaniya is a major religious, religious and historical place in Sri Lanka, haphazard development with the complexity of the urbanization and inequality of the physical structure surrounding it, it hinders the sense of a sacred city.

Figure 3.1 Kelaniya Viharaya

Figure 3.2 Kelani Perahera



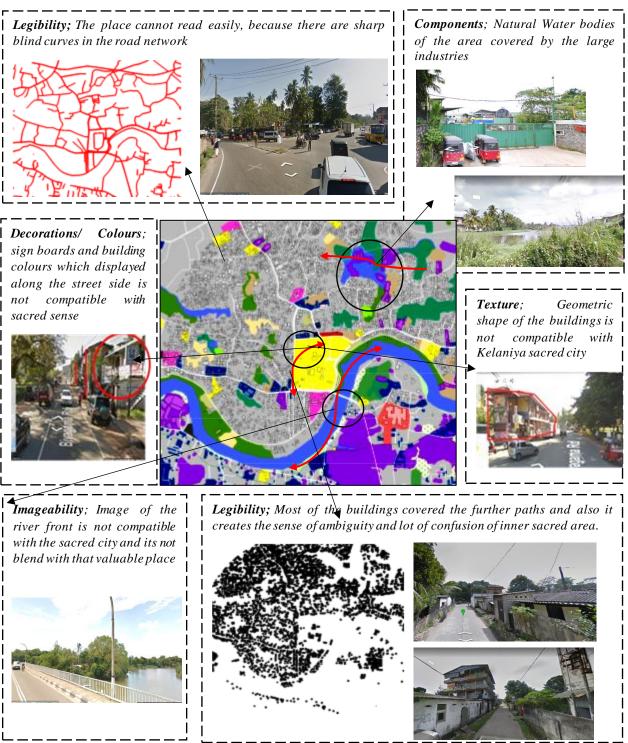
Source: srilankaview Website,2019

Source: srilankaview Website,2019

This historical sense which people feel about this place gives a value to it. Problem with the Sense of Kelaniya Sacred area is, though it feels the sacred sense as a historical, cultural and religious place where even visit by the load Buddha, it not felt when visit this sacred place like Kandy, Anuradhapura and etc.

Incompatibility of Visual performance, the visual performance of the area highly influences to feel the sense of place by 'Place Attachment' which physically attached with this place. But the Kelaniya area which located in the highly urbanizing area is influencing for declining the physical characteristics which helps to strengthen the sense of place in Kelaniya sacred area. It can be further elaborate by defining urban pattern and characteristics that create a unique sense of place. Physical characteristics which further analysis through a typological analysis has revealed that how the place characters have influenced to declining the sense of sacred area. Physical parameters which effect on sense of place such as Size, Scale, Components, Diversity, Texture, Decoration, Color, and Noise which can be elaborate in line with the Kelaniya sacred area.

Figure 3.3 Composite Typological Analysis



Source: Planning Team - Gampaha District Office, 2021

As express in the literature,

"In cities, factors such as rapid development and gentrification, mobility, migration, and blurred boundaries between the natural and built environment complicate sense of place"

--Source: https://www.thenatureofcities.com -

In view of sacred areas in Sri Lanka and in other countries, cultural relationship with water sources could be highlighted. It is evident that Katharagama is integral with the Menik Ganga (river) and similarly Kandy Sacred city is integral with Nuwara Wewa (tank) and Kalutara Sacred area is linked with Kaluganga (river). Though Kalaniya PS is located close to important water resource of Kelaniya River, it does not have interrelationship with the river culturally or emotionally indeed. Location of slums and shanties along the Kelaniya Riverbank will go away or disturb the possibility towards connecting Sacred area with the River. Hence, it is refining the essentiality of planning involvement in kind and safeguard the history by genetics approach.

3.2 Environment inconvenience emerging with "Environmental Disequilibrium" due to flash flooding and urban heat

The present flood vulnerability and high urban heat of the area creates an inconvenience environment for both city dwellers and commuters.

Approximately 28% of land area out of total land area as per survey done in the year 2000 has been devoted as low-lying area. However, during the year 2017 this percentage has been reduced to 46% for the period of 17 years. Presently total percentage of low-lying wet land area is limited to 15% only. Analysis of NDVI techniques under Are GIS usage will clearly indicate the truth. As mention in the figure 3.4, it shows that how is the green cover has changed with the time from 1992 to 2017, using the aerial photographs taken during the years 1992, 2004, 2010 and 2017. The green color patches show the green areas and red and yellow color shows the construction areas (brown field areas).

In deliberation of land values in the area as mention in annexure 20, land value of the low-lying lands in the area are generally low. This trend is badly affected in converting low lying area for development purposes legally or illegally. It will severely make threats to water ways related low lying lands. All these will get result of sudden flooding, enhancing of urban heat and creating discomfort to residents and commuters who make use of these urban lands. Some areas are inundated with the slight rain due to this situation.

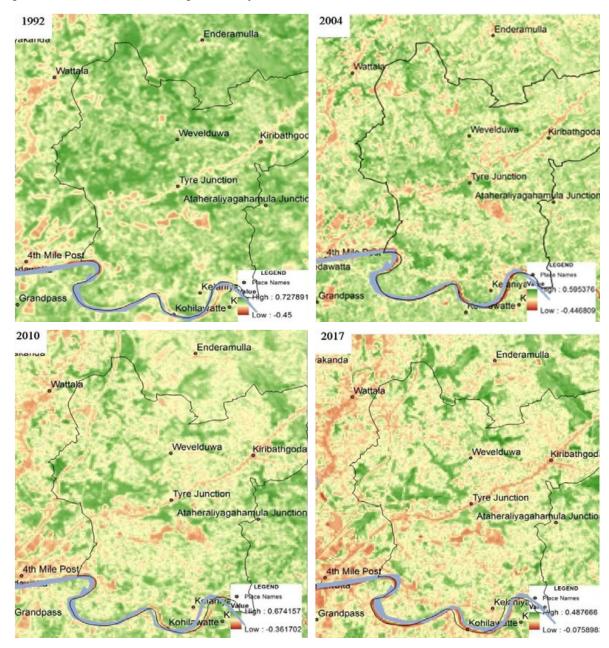


Figure 3.4 Deterioration of Green coverage (NDVI Analysis)

Source: Planning Team - Gampaha District Office, 2021

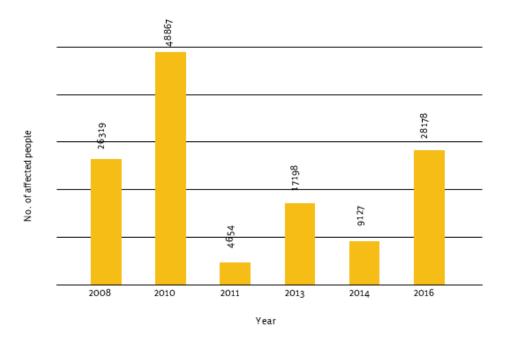
Note: The dark green area shows the green cover, and the areas indicated in yellow and red are areas of construction.

Flash Flood:

This area is inundated by flood even in the slight rain. This area included to the Kolonnawa flood zone in Kelani river basin. Therefore, Mudun Ela area which close to Peliyagoda is affected for the Kelani river flood and other areas frequently affected for the flash flood. As an area which provide the living space for the people who work in Colombo CBD and its suburb, it is a highly densified area. Therefore, flood hazard may be a disaster by affecting the people with the property damages. As mention in annexure 21, Yearly Wanawasala, MudunEla, Kholvila, Mewalla and unauthorized settlements in the Kelani River

north bund affected for the flash flood and river rain flood while displacing number of people with the property damages. According to the figure 3.5, more than 20,000 of people are affected for flood annually.

Figure 3.5 Flood affected Population in Kelaniya PS Area (2008-2017)



Source: Desinventar Website / Planning team – Gampaha District office, 2021

Urban Heat:

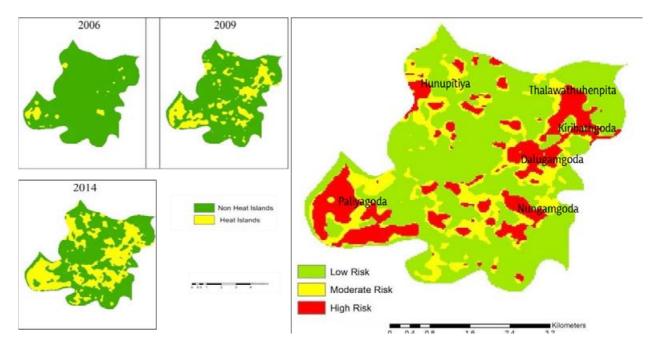
Apart from the flood, with the massive development the people who living and deal with this area is vaccinated by the high urban heat. According to the research which conducted by the University of Ruhuna, land surface temperature of the Kelaniya area is increased compared to adjacent areas due to urbanization and industrialization. Heat island areas are rapidly increased with the time and highest amount of heat generation was to be occurred during 2009 - 2014 period as mention in table 3.1.

Table 3. 1 Heat Island Expansion in Kelaniya (2006-2014)

Category	2006	2009	2014
Heat island area (Km2)	0.76	4.61	13.69
Heat island area (%)	3.7	22.17	65.82

Source: Development of thermal risk map case study, University of Ruhuna

Figure 3.6 Thermal Risk Areas in Kelaniya DSD



Source: Development of thermal risk map case study, University of Ruhuna

Accordingly, 65% of the total land area is in the thermal zone. 13.69 Km2 extent of land from the total land extent in Kelaniya DSD is included to high-risk urban heat areas. And around the high-risk areas there is a moderate risk of urban heat. As a result of this exposure to extreme heat, people in this risk areas are affected by the urban heat. Under this imbalance, in an area where the population is high, it is essential to manage a proper environmental management planning intervention to create an environmentally comfortable area for both residential and commuters.

3.3 Increasing Traffic Congestion

The Kelaniya PS area is located at the busiest transport corridor which connect the northern, Eastern and central part of the country with western region. Average vehicle movement in the Colombo Kandy main road is about 150,000 per day. Traffic congestion has been experiencing all over the day while creating uncomfortable for general public. When proximity to Colombo CBD via Colombo – Kandy main artery, it has become the main problem that waste the valuable time. Kiribathgoda town centre which functioning as the main town centre in the Kelaniya PS area highly congested by the traffic and further it is increased by the vehicle movement which come from the Makola road & Hunupitiya road.

Exceeding traffic capacity has influenced as a main factor to increase the traffic congestion. "Average daily vehicle movement is 100,000 to 150,000 at the Colombo Kandy road. It is recorded pcu value as 4400, which is second heist hourly vehicle capacity out of five main corridors to the city of Colombo" - (CMRS Master Plan, 2010). As mention in the table 3.2, the Colombo – Kandy corridor has recorded the highest peak hour traffic as 4400 pcu. And it exceeds the hourly capacity because hourly capacity is about 3300 pcu.

Table 3.2 Peak Hour Road and Vehicle Capacity in Main Corridors

Corridor name	Peak hour vehicle capacity (pcu)	Hourly road capacity (pcu)
Kandy Corridor	4400	3300
Low-level corridor	2900	2200
Malabe	5100	4400
Galle	2900	2300
Horana	2200	2300
Negombo	4000	4400

Source: Com-Trans study report, 2014/ Planning team – Gampaha district office, 2021

Comparison to the other transport corridors peak hour bus frequency and passenger flow also high in the Colombo-Kandy corridor. It has shown in annexure 22. As a result of that, it is emerged that there is a high traffic congestion in Kiribathgoda, Tire junction area in the Colombo – Kandy corridor. According to the Peliyagoda traffic police report vehicle speed is recorded as 10-15 km/h at the Kiribathgoda and Peliyagoda city centres. It has clearly mention in table 3.3.

Table 3.3 Peak Hour Average Travel Time in Kelaniya

From/To	Distance	Travel speed	Average Travel time
A1 Road (from Peliyagoda to Mahara)	8 km	10-20 Km/h	40 min
Colombo-Biyagama Road (Peliyagoda to Kelani temple)	5 km	20-30 Km/h	15 min
Waragoda Road	3 km	Below 10 Km/h	30 min
Makola – Hunupitiya Road	5 km	20- 30 Km/h	15 min

Source: Google Traffic Analysis and Com-Trans study report

According to the below google traffic image analysis, it also reveals the peak hour high traffic congestion in the Colombo – Kandy main artery and it is relatively highest from Mahara to Tire junction.

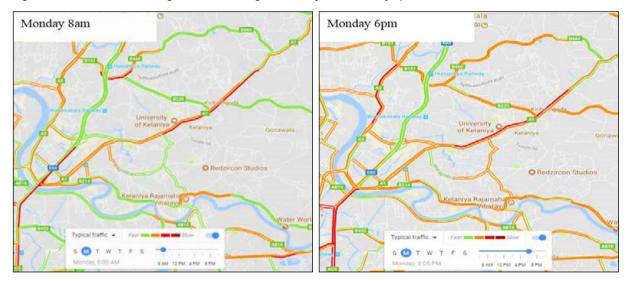
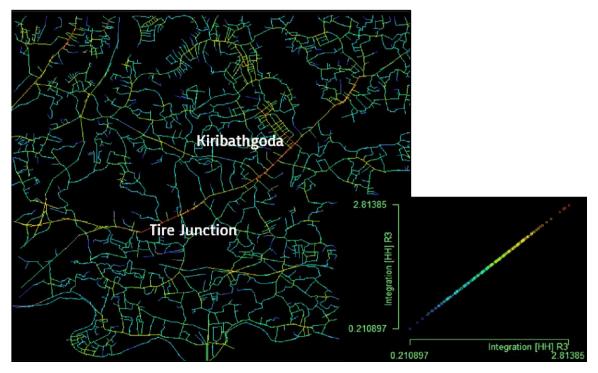


Figure 3.7 Peak Hour Traffic Congestion in Kiribathgoda (Monday 8am/ Monday 6pm)

Source; Goole map traffic analysis, 2021

Accordingly, more than 40 minutes spend in the peak hours to travel a short distance, about 8km in this area. When consider the special integration of the road network in Kelaniya PS area as mention in figure 3.8, the Space Syntax Analysis reveal that the integration is highest at the Kiribathgoda and Tire Junction through the Colombo- Kandy Main road comparatively other roads. Waragoda road, Hunupitiya road and Biyagama road also emerged a moderate special integration. Figure 3.8 Spatial Integration in Kelaniya PS Area



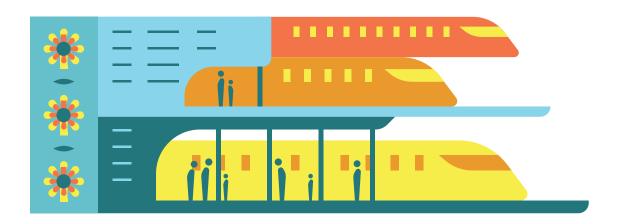
S ource: Planning team - Gampaha District Office, 2021

The main transport corridor which passing through the Kelaniya PS area is connecting with huge part of the country such as Central, Eastern, North Central, and Northern provinces. And, number of existing urban centres are located with the connection of this main transport corridor such as Nittambuwa, Kadawatha and Kiribathgoda, etc. It directly affected to increase the traffic congestion in Kiribathgoda area as a main town centre in the Colombo – Kandy main artery which locate close to Colombo CBD. Though at the present this area is function as a main transit centre for the people who work in around employment centres, they are suffering from the high traffic congestion which affected to the loss of time and high cost.

In this way, based on the ideas and suggestions received from the stakeholders and scientific analysis, the need for a development plan can be analysed in detail over three major issues, and these three key questions further confirm with the comments as given in Annexure 23. Accordingly, a development plan is a necessity for the Kelaniya area to be converted into an efficient city.

Kelaniya Development Plan (2021 -2030) Urban Development Authority





The Planning Framework

Kelaniya Development Plan (2021 -2030) Urban Development Authority

Chapter 04 The Planning Framework

4.1. The Vision

"The Urban Locus of Divinity"

Figure 4.1 Conceptual Development Visualization of Kelaniya in the Year 2030



Source: Planning Team – Gampaha District Office, 2021

4.2 Vision Statement

"A Cavalcade of Urban Events in the Descending intensities of congestions towards a pinnacle of Tranquilly"

The Urban locus

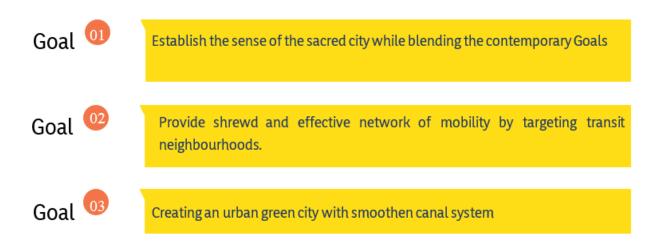
The locus is a kind of site which can accommodate a series of events and itself constitutes an event as well. And also, the a rea is mixed development area which prominent for the living space. Therefore mainly, the area is function as a transit based residential area which provide the living space for people who work in the adjacent employment centre. The existing and proposed railway and LRT stations area the centres of high dense residential area. Along the Kandy corridor functioning as a growth corridor which accommodate the logistic, Education, commercial and urban services for the people who living in this area and entire region. Protect towards a green urbanized city based with transport facilities on high urbanization protecting Kelaniya Sacred town and its holiness and inheritance. It is intended to achieve a green urbanized city based with transport facilities on high urbanization protecting Kelaniya Sacred town and its holiness and inheritance in the year 2030. It is expected to provide services to inhabitants by using existing modern integrating the proposed new railway line and proposed light railway lines. It is expected to provide transport, commercial and urban services-oriented development to all communities inhabited in the region.

Divinity

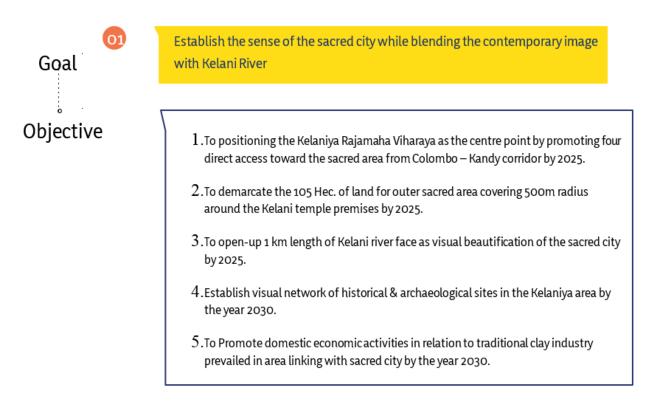
The vision of the Kelaniya Development Plan – 2030 is, to develop Kelaniya by focusing the Kelaniya Sacred area as the blessing point of the congested urban area as emerge the sense of sacred city while blending it with the Kelani River. Kelani temple and Kalaniya PS area connect together with the Kelani River which oriented from the peak of Samanala Mountain at this Kelaniya PS area. it is the uniqueness and character of the area. To protect this uniqueness and character, all the urban events of the area is arranged, as descending intensity of congestion of all the urban events toward the sacred area while upgrading infrastructure, economic and protecting environment of the area while establishing sacred sense which creates a blessing point for all pilgrims and for the entire region. It is expected to make this religious area for both local and fore ign pilgrims and high dense urban site integrating the Kelaniya River as well reserving calm & quite environment in a place of highly built-up township. High urbanization including all urban activities which add inner-city density would be gradually weakened from north towards the sacred place.

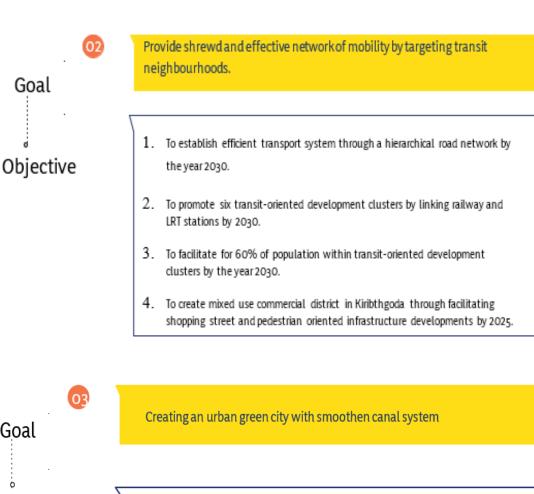
Kelaniya Development Plan (2021 -2030) Urban Development Authority

4.3 Goals



4.4 Objectives

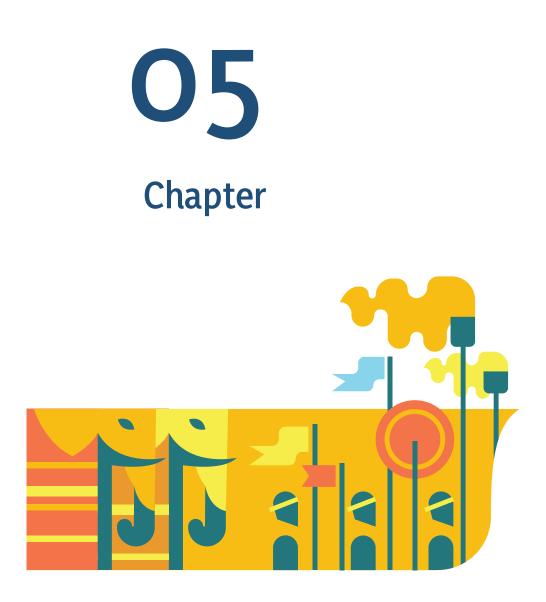




Goal Objective

- 1. To minimize flooding distresses by using 300 Hec. of wetlands in a systematic way by the year 2030.
- 2. To wise use of 140 Hec. of wetland conservation area for public open recreation areas by the year 2030.
- 3. To manage 100% of continuous canal network by the year 2030.
- 4. To proceed towards a green city while collaborating with Kelaniya green university prescient by 2030.

Kelaniya Development Plan (2021 -2030) Urban Development Authority



SWOT Analysis

Chapter 05 SWOT Analysis

5.1 Summarized SWOT

Goal O1 Establish the sense of the sacred city while blending the contemporary image with Kelani River.

S

- Location of Kelaniya Temple as a prime religious centre with Historical, Religious and Culturally valuable elements.
- Place of worship for majority of local and foreign pilgrims. (100,000 pilgrims on Poya Days and 200,000 pilgrims on Kelani Perehara Day)
- 18 archaeological places including sacred Kelani temple had been identified by the Archaeological Department were situated within this area.
- Traditional Clay industries and Poison medical hospital were located closely to the Kelaniya sacred area.
- 6 km of river front in Kelani river were included to the Kelaniya PS Area.
- The North bund of the Kelani river mitigate flood in the sacred area.

W

- 10% of land around the sacred area consisted with industries and warehouses.
- Traffic congestion and creating inconvenience environment in front of sacred area due to 1/3 of containers of Biyagama EPZ is flowing on Colombo-Biyagama road.
- Approximately 1200 shanties were spread over on the bank of Kelani River



0

- Projects incorporating the Kelani River were included in the proposed sacred area plan prepared by the NPPD.
- According to the Western Region Structure Plan 2030, Kelaniya Riverbank area identified as environmental conservation area.

Т

• Distribution of industries to the sacred area might be possible since the area from Peliyagoda to Ragama has been identified as Logistic Corridor.





Goal

O2 Provide shrewd and effective network of mobility by targeting transit neighbourhoods

S

Availability of TOD based Components

- Accessibility and Connectivity, Easy accessibility to the educational institutes and working places located at the city of Colombo and other suburbs.
- Location close to main Transit Corridor and Transport Interfaces.

(A1 main Road, Interchanges of OCH Kadawatha & Peliyagoda, Wanawasala, Hunupitiya and Kelaniya Railway Stations.)

- Density
 Existing population density is 61 persons per hectare. and it is exceeded the normal population density for TOD concept. North part of the area will be suitable for development with higher density.
- Mixed of Uses
 Exercising mixed landuses within the area
 such as commercial, services, educational,
 housing and working places etc.
 (Approximate 100,000 commuters
 concentrate to Kiribathgoda for daily needs)
- Compact Development Higher development pressure from Kiribathgoda to Hunupitiya

W

- Traffic congestion on the Main Road (Maximum speed in the rush hour is 10-15 kmph)
- Lack of connectivity between multi-model transport systems and lack of pedestrian oriented facilities
 - Low connectivity between train and public transport system
 - lack of space for vehicle parking, Narrow pedestrian paths



0

Interfering of National and Regional Plans

- it is proposed to increase population at a rate of 20% to 30% according to the Draft National Physical Plan -2050 and it is demarcated as East - West economic corridor.
- Directly affected by proposed Public
 Transport Services. (Light railway system and new railway and railway electrification.)
- Draft Peliyagoda Development plan has proposed to develop a connectivity road linking administrative city for reducing traffic congestion.

• Nearly 20000 people affected to flood disaster.





Kelaniya Development Plan (2021 -2030) Urban Development Authority



Creating an urban green city with smoothen canal system

S

- This area belongs to Lower Kelani River sub basin with Kelani River as the main water source of the area which comprised with Canal network.
- 15% green wetlands remain from the total extent of the area.
- There are places to create a Green City (Kelaniya University, Kelani Temple, Kelani River North Bund Reservation zone)

W

- Under Served settlements are spread over reservations of Railway line and Kelani River.
- All canals are blocked more than 500 metres.
- No proper methods for solid waste management





0

- An environmental conservation zone has been identified along Kelani river by the Proposed Western Province Structure Plan-2030
- University of Kelaniya has been identified as the first Green University in Sri Lanka.
- Existing Environmental preservative Guidelines stipulated by the SLLR&DC

- Identified 65% of land extent as urban heat generated area.
- Threat to degenerate of wetlands, From the total land area,

In 2000 – 28% wetlands

In 2017 – 15% wetlands





5.2 Detailed SWOT Analysis

Goal 01

Establish the sense of the sacred city while blending the contemporary image with Kelani

Strength | Goal 01

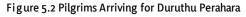
 Location of Kelaniya Temple as a prime religious centre with Historical, Religious and Culturally valuable elements

Kelaniya is an important historical specific place since it has been the holy locality by having been the 3rd and final tour of Lord Buddha to the Western Province of Sri Lanka as well. With the beginning of settlement, in this area became spiritual perception and action has been taken to declare the area as a holy site as far back as 1952 by the Parliament of Sri Lanka, an attempt has already been taken for legal sanction to establish its sacredness.

2. Place of worship for majority of local and foreign pilgrims.

Kelaniya Temple sources revealed that around 10,000 to 20,000 pilgrims arrive daily while they would increase between 75,000 and 100,000 pilgrims during full moon days. However, this will be going up to 200,000 pilgrims during the month of January Duruthu Poya Day because of the Perahara festival. Sri Lanka Tourist Board announces that Kelaniya Duruthu Maha Perahera is the opening of Sri Lanka cultural processions.

Figure 5.1 Pilgrims in Full Moon Poya Days





Source: Dailymirror Website

Source: Dailymirror Website

Hence, it is very important that had been the existence of holy relationship with local and international pilgrims to develop this area as a sacred city.

3. Presence of 18 ancient sites that have been identified by the Dept. of Archaeology along with the Kelaniya Temple in this area.

According to the Department of Archaeology, 18 archaeological sites have been identified within the Kelaniya PS area. Locations and Photographs related to these places are given in annex 24. They represent 1% of total land area though it may be a slight percentage, but importance of such areas is much more as in the past & present.

4. Existence of traditional clay industry and Snake Poison Hospital adjacent to sacred area.

Traditional clay industries started in the year 1925 located in Galborella area gives strength historical identity as in the past. Clay industry is existed even today with relationship of the sacred site would enable to have sound links. Since poisons hospital & its College located very close to the area enabled Sacred area with domestic medicine.

Figure 5.3 Kelaniya Snake Poisonous Hospital



Source: google map images, Chathuranga Ranathunaga, 2021

5. 6 km of river front in Kelani river were included to the Kelaniya PS area.

In view of water resource areas, the annexure 25 shows that Kelaniya River seemed to be the main reserve and it locates very much closer to the Kelaniya Viharaya indeed. And also stretching the riverbank area towards 6km in the Kelaniya PS area, provision is there to develop the area as sacred spot.

Figure 5.4 Kelani River



Source: Google Street view, 2015

6. The North Bank of the Kelani River mitigate flood in the sacred area.

Ricks of flood in sacred area is much lesser due to structural blockade of the north bank. As per Annexure 26 shows that this area belongs to Kolonnawa flood zone, with the structural blockage in the north bank, flood ricks will not so be affecting. Hence safe environment could be created to almost all pilgrims who travelled this holy area.



1. Expansion of 10% land area for industries and warehouse activities within Sacred area.

In bearing in mind, the land usage within the area of 1 sq.km distance, it is clear that 10% of land area is used with industries and stores. In addition, as indicated under Chapter 3 and figure 3.3 combine analyse that the structures, shapes, colours, and sing boards are not compatible with holiness.

2. Traffic congestion and creating inconvenience environment in front of sacred area due to 1/3 of containers of Biyagama EPZ is flowing on Colombo-Biyagama road.

Biyagama Export Processing Zone is connected with the Port City via Biyagama – Colombo main road. Therefore, more than 1/3 of containers of Biyagama EPZ is flowing in front of the Kelaniya temple. According to the special integration analysis shown in figure 3.8 in chapter 03 in part one, it has revealed that there is a considerable integration near the Kelani temple which may cause to traffic congestion and create an inconvenience environment with noise.

3. Location 1,200 of shanties along Kelaniya Riverbank

Presently, there are around 1,200 of shanties along Kelani river north bank and its appearance is obstacle to the integrated approach on environment of the sacred city out of which about 62 shanties are very much near to the sacred area as mention in figure 5.5 and table 5.4.

Figure 5.5 Unauthorized housing units on North Bank of Kelaniya River



Source: Google satellite image, 2017/ Planning team – Gampaha district office, 2021

Name of GramaNiladhari Division	Raw Houses	Shanties	Total housing units
Kelaniya	6	11	831
Mewella	72	46	1064
Pilapitiya	5	1	566
Sinharamulla	85	4	721

Table 5.1 Shanties on Kelaniya River North Bank in GND wise

Source: Dept. of Census & Statistic - GIS data, 2014/ Planning team – Gampaha district office, 2021



1. Projects incorporating the Kelani River were included in the proposed sacred area plan prepared by the NPPD.

The plan prepared by the National Physical Planning department proposed an unauthorized free Sacred area and linking Egoda Kelaniaya & Megoda Kelaniya through flowing boats, jetties and a hanging bridge as well. It extends the possibilities enhance the value of sacred site with the river. Thus, facilities could provide for pilgrims to use new propose d vehicle parks, and recreational areas. All such proposals of NPPD are shown in Annexure 27.

2. According to the Western Region Structure Plan 2030, Kelani Riverbank area identified as environmental conservation area.

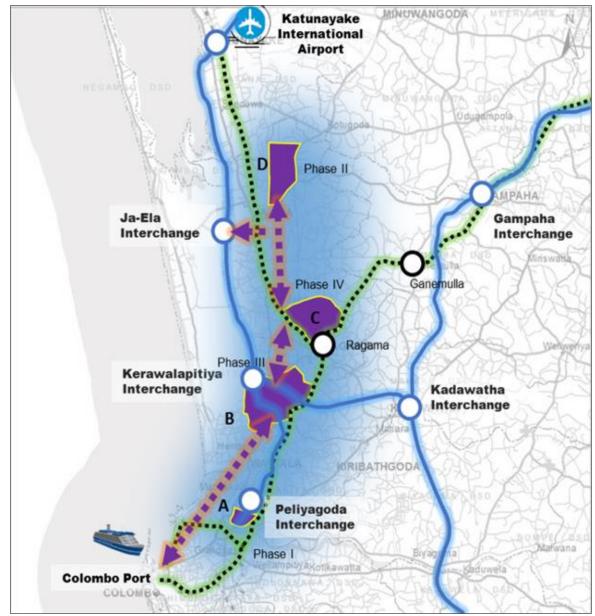
As shown in Annexure 08, proposed 100-meter(M) reservation area either side of Kelani River for environmental conservation. Thus, it will be an opportunity to integrate in creating landscape & environmental aesthetic atmosphere of Kelani river and its surroundings.



 Distribution of industries to the sacred area might be possible since the area from Peliyagoda to Ragama.

It is proposed that Katunayaka, Peliyagoda and Kelaniya areas to be urbanized as areas of corridor of logistic activities as mention in figure 5.9. Accordingly, this area will be especially developing a location of stores& warehouses, container yards and middle of local level goods transportation. Hence here is a possibility or threat in converting lowland areas for stores & warehouses etc. up to Kelaniya Sacred area which will not be extended further.

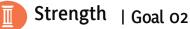
Figure 5.6 Ccorridors of Logistic Activities



Source: Draft Peliyagoda Development Plan, 2021-UDA

Goal 02

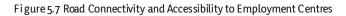
Provide shrewd and effective network of mobility by targeting transit neighbourhoods



It is a strength in having transit-oriented development components in this area.

1. Accessibility and connectivity

Kelaniya is located in an easy accessibility & connectivity with employment generating and educational areas of Colombo and nearing fragments. Maximum time to employment & service centres would be 40 minutes. It has mention in figure 5.10. Hence this area will be accomplished as a residential location of employees in Colombo and suburbs.





Source: Planning team – Gampaha district office,2021

- Location to Kelaiya University in the area
- Colombo port and commercial city 14km
- Sri Jayawardenapura Administrative Capital - 8km
- Biyagama Trade zone 13km
- Sapugaskanda oil refinery 5.5km
- Katunayake Industrial Zone 10km (via Expressway - 20 minutes)
- Kerawalapitiya Industrial Zone 10km (via Expressway - 20 minutes)

Thus, based on the road connectivity Kiribathagoda town could be recognized as 1st order town in the area Hunupitiya and Kelaniya could be recognized as 2nd order towns. It has express in annexure 11. There is a possibility of enabling towards developable area as Kiribathgoda town considering its locational advantage.

2. Location close to main Transit Corridor and Transport Interfaces.

Location close to A1 main Road, Interchanges of OCH Kadawatha & Peliyagoda, Wanawasala, Hunupitiya and Kelaniya Railway Stations. This Kelaniya PS area is directly linked with the A 1 Main Highway enabling high connection with the National Road network. As shown in Annexure 03, since through Kelaniya, Hunupitiya and Wanawasala Railway stations are easy access to main railway line. And also, this area is 3 km distance to Kadawata Expressway interchange Exist and with 2 km distance to Peliyagoda Expressway interchange enabling easy connectivity to numbers of transportation network as well.

3. Density

As per TOD theory, the minimum population density in a hectare is 40 people. As described in figure 2.3 in the Chapter 2, population density of Kelaniya DSD area is 61 person per hectare. It was also highlighted in annexure 05 that 58% of land area is used for residential purposes. Accordingly, it is now over exceeding of the maximum population density for planning a Transit-Oriented Development. It reveals that this area is suitable for high dense residential uses.

4. Mixed of Uses

Use of services, shop complexes, Educational, housings and employment usages are the main uses in this Kelaniya PS area. Kiribathgoda as a main market centre, Keaniya University located in Dalugama as main educational centre, Peliyagoda adjacent area as industrial and transport activities, Kelani Viharaya as a main religious centre and this area consisting with mixed high residential uses. Landuse of 500 M of either sides of the Main Road is shown in figure 5.11.

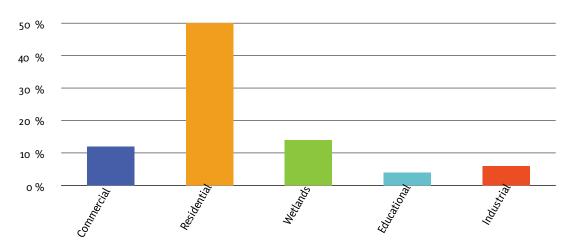
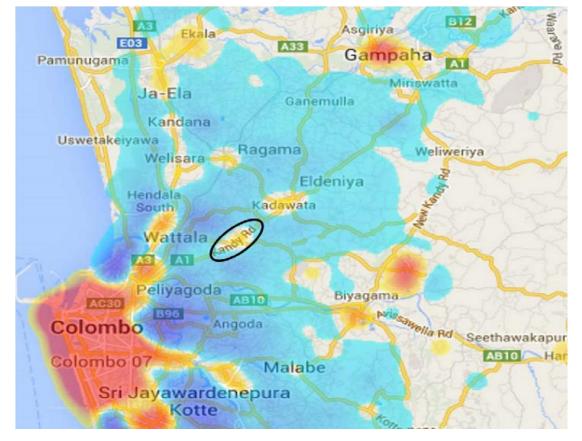


Figure 5.8 Landuse along either side of A1 Road

Source: Planning team- Gampaha District office, 2021

Day time commuter population would be 100,000 per day for various requirements due to its mixed of uses. It has shown in figure 5.12.

Figure 5.9 Day Time Population Sinking - Kiribathgoda Town



Source: Draft Peliyagoda Development Plan, 2017

There is a possibility of developing Kiribathgoda town as a transport based mixed commercial centre and efficient &fruitful midpoint.

5. Compact Development

It is essential to have compact development for TOD development. As per annexure 17, when consider the development pressure in Kelaniya area it shows that it is noticeable in Kiribathgoda town and Hunupiutiya, Makola areas. This condition if favourable for developing transit-oriented development centres with compact developed nodes.

Weaknesses | Goal 02

1. Traffic congestion on the Main artery (Maximum speed in the rush hour is 10-15 kmph)

Heavy traffic congestion along the Colombo – Kandy Road near Kiribathgoda town is a much interruption to vehicles as well as to the people who travel over the town. The maximum travel time from Peliyagoda to Mahara Junction is 15 km per hour and accordingly devoting over 45 minutes for a distance of 8 km.

Table 5.2 Maximum Travel Speeds Per Hour in Kiribathgoda Town

Road	Distance	Travel Speed	Average Travel Time in Minutes
Colombo – Kandy Road (from Peliyagoda to Mahara)	Km 8	КМРН 10-20	40

Source: Com- Trans Study Report,2014 and Google Map

2. Lack of relationship with pedestrian oriented facilities and multi -model transport disturbance and unavailability of pedestrian facilities

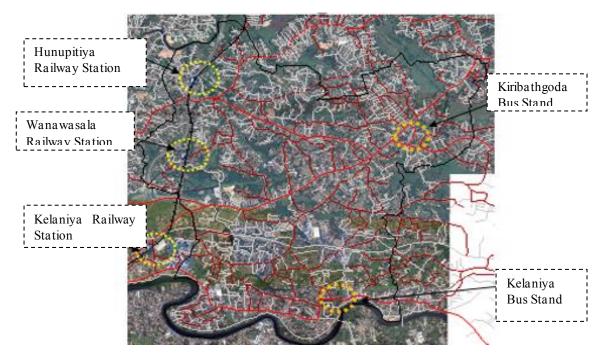
An appropriate relationship should be there for presence of multi model transport interference on transit-based development. But There is no relationship between existing railway stations and bus standards. The distances are far more than maximum travel distance (500-800 m) of a person. The existing distance among the bus stand and railway station has shown in figure 5.13 and table 5.6.

Table 5.3 Less Inter- Relationship of Multi-Model Transport Systems - Kelaniya

Transport Destinations	Hunupitiya Railway Station	Wanawasala Railway Station	Kelaniya Rail-way Station
Bus Stand – Kiribathgoda	4.6 km	5 km	4.8 km
Bus stand – Kelaniya	6 km	5 km	4 km

Source: Planning Team- Gampaha District Office, 2021

Figure 5.10 Weaknesses of Multi-model Transport interlinks in Kelaniya



Source: Planning Team- Gampaha District Office, 2021

Around 100,000 of daily commuters are gathering in Kiribathgoda town for the day to day needs under limited pedestrian facilities. Because width of pavement of Colombo – Kandy Road crossing Kiribathgoda Town is around 1 M. It is also could mention that no recreational facilities provided to these people. It is important factor to be considered.

Figure 5.11 Narrow Pedestrian Pavements of Kiribathgoda



Photograph by: KCL Jayaratne Perera,2021 Further no vehicle parks provided for people who visit this town as a result there seemed lots of roadside parking. This makes traffic congestion.

Figure 5.12 Vehicle Parking along the Main Highway



Photograph by: K.C.L. Jayaratne Perera, 2021



There are direct and indirect benefits for transit-oriented development (TOD) stimulated on local & national participation aimed at transport made-up settlements in making efficient & fruitful township.

 Kelaniya PS area belongs to east and west economic corridor under National Physical Plan 2018 – 2050

As per proposal of the National Physical Plan of 2050, Kelaniya area is belonged to the east & west economic corridor. It is expected to increase 20% - 30% population growth in this corridor. As mention in annexure 07 it has expected to promote population density of 6,000 to 10,000 persons per Sq.km in the Kelaniya DSD area. Hence this region will be an opportunity for transit-based development.

2. Directly affected by proposed Public Transport Services. (New proposals of Light Railway under the Manifestor)

Railway service from Panadura to Veyangoda is proposed to be modernized. This is a proposal to be a project of immediately commenced and will be direct impact to the area. Three railway stations including Hunupitiya and Wanawasala apart from Kelaniya Railway Station found to be the closest station give direct in put to the transport service. And also proposed new Biyagama – Kosgama Railway line would create a space as well. There is a necessary for new railway station also in this area. In addition, it is also identified as direct effected area with the recommended Light Railway Line. Accordingly, proposed Ragama – Narahenpita light railway line and Hunupitiya – Kottawa light railway line would link through this area. Thus; Hunupitiya, Manelgama, Tire Junction, Kiribathagoda and Polhena areas are planned as new light railway stations. In addition, Kelanimulla which is near southern part and Mahara Junction towards north eastern direction areas are proposed to be new light railway stations. All these new light railways, modernizations and new railway lines are indicated in annexure 29. As a result of general transport facilities, Peliyagoda is identified as multificated transport centre at the Colombo Development Plan and also identify Hunupitiya as 3rd priority region. It has mention in figure 5.16.

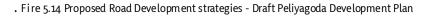
Figure 5.13 Proposed Plan for Hierarchy of Urban Centres

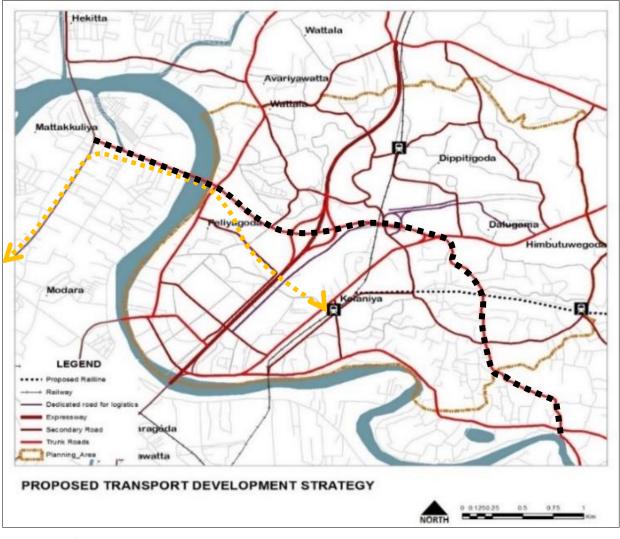


Source: Draft Colombo Development Plan - 2030 In addition to Kiribathagoda as the key urban centre, Hunupitiya and Tire Junction areas are suitable sub centres for development.

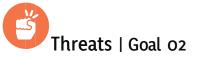
3. As per Peliyagoda Draft Development Plan 2030, a road is proposed as a link road connecting administrative capital in minimizing road traffic congestions.

Establishing hierarchy of roads under Peliyagoda Development Plan, it is proposed to minimize traffic congestions and also suggested to reserve & improve the old Keaniya Bridge for goods transportation. It is proposed to widen the Peliyagoda – Kelaniya via the bridge crossing over the Kelaniya river approaching Colombo City. New proposals include a link road under hierarchical road network from Tire Junction to Kelaniya Viharaya. It is also suggested to establish a new Railway Station at Nungamugoda as well. As such these strategies would provide solution to problem of traffic congestion prevailed at present thereby an efficient and fruitful attempt for a sound urban setting is fulfilled. All these proposals included in Draft Peliyagoda Development Plan has mention in figure 5.17





Source: Draft Peliyagoda Development Plan – 2030



1. Nearly 20,000 people are affected for flood annually

Kelaniya is highly affected for both flash and river rain flooding. As described in detailed in chapter 03, nearly 20,000 people are affected due to floods. It has shown in figure 3.5. The flooding area in Kelaniya shown in annexure 21, inundated by flood even in more than 150mm of slight rain. And it would cause drowning over some areas which may affect facing difficulties by employed people as well as school children in the area.

Goal 03

Creating an urban green city with smoothen canal system

Strength | Goal 03

1. Availability of Canal system mainly with Kelani River and including to lower Kelani river sub basin.

As shown in annexure 30, Whole Kelani river basin has divided into 20 sub basins by the Survey Department. The Kelaniya PS area is belonged to low Kelaniya River sub complete area. Nearly 2% of land area is consist with water bodies. Thus, Kelaniya is the main water feature and apart from that as shown in annexure 25, there is a network of tributaries which connected with Kalu Ela as well. Accordingly KumbalOya, Natha Ela, Eri Ela, Hapugaha Wella, Mudun Ela and Mahara Mudunela are important which flow integrating through along watersheds of urban areas enabling to build up a favourable urban atmosphere .

2. Existence of 15% of wetland area out of the entire land area.

As shown in annexure 15, 15% of wetland areas from entire land area is yet available as watershed green area in the event even with the threat of reclaiming low-lying lands for residential purposes with closer to very high residential density prevailed in Colombo. It is a strength to reduce existing flood and problems of urban heat.

 Availability of pioneer locations for forming a green city (University of Kelaniya, Kelaniya Viharaya and Kelaniya River & conservation zone of north riverbank)

Having Kelani Viharaya extending over 13 hectares of land area, Kelaniya University with a land area of 15 Hec. and Kelaniya River and its north dam conservation zone of 35 Hec. will be suitable areas for establishing a green city.



Weakness | Goal 03

1. Availability of slums & shanties along Kelani riverbank and railway reservation areas.

743 of shanties & raw houses are mostly available in Kelaniya PS area. The distribution of slums and shanties are shown in annexure 31. They are highly spread over the Kelani River reservation, railway reservation and low-lying land areas as shown in figure 5.18. As mention in annexure 32, 45% from the total slums & shanties are spread in area near by Kelani river north bund. Apart from that, 21% from the total shanties are spread in Hunupitiya North & South, Wanawasala and Welegoda railway reservation areas. All other shanties area located in low lying land areas.

Figure 5.15 Shanties of Watershed areas of Eriyawetiya and in Kelaniya River North Bank



Source: Google street view, 2021 / Photograph by A. M. C. Samanthilaka

2. All canals in the area are obstructed by more than 500 M

According to the Natural Water flow analysis of the area mention in annexure 33, Natural water ways of all canals are obstructed by more than 500 M. This is a reason for the problems of immediate floods. The block length of all canals is shown in Table 5.7 and their photographs are shown in figure 5.19.

Table 5.4 Obstructed Canal Network in Kelaniya Area

Name of Canal	Obstructed Length
Natha Canal (from Gonawala to Kalu Ela)	Km. 3
Eri Ela (from Eriyawetiya to Kalu Ela)	Km.3.4
Hapugaha Bund (from Kiribathgoda to Mahara Mudun Ela)	Km. 1.5
Mudun Ela	500 m
Kumbul Oya (from Pethiyagoda to Kelani River)	Km. 6

Source: Planning Team- Gampaha District Office, 2021/ Natural water flow analysis - GIS Analysi

Figure 5.16 Nature of Canal Obstructions in the Area



Photographs by A.M.C. Samanthilaka

3. Lack of arrangements for solid waste management

The information available at the office of Kelaniya PS, the total collection of garbage is 110- 120 tons per day. If arrangements are made to collect at least 80%, yet there is further problem of a space for disposing them since the capacity of Manelgama Land Filling Station has been exceeded at this moment. It has shown in figure 5.20.

Figure 5.17 Solid Waste Land and Compost Project at Manelgama



Photographs by A.M.C. Samanthilaka



 An environmental conservation zone has been identified along Kelani river by the Proposed Western Province Structure Plan-2030.

According to Annexure 08, under the proposed 2030 Western Region Structure Plan – 2030 has proposed to conserve 100m both side of the area as Environmental Conservation Area. Removal of unauthorized and irregular settlements will also enable them to create areas where water is being conserved as green open areas. This is ideal for creating a green city.

2. Kelaniya University is identified as the first Green University.

In 2014, the University of Kelaniya was named the first Green University of Sri Lanka. This is further confirmed by the above-mentioned newspaper articles in figure 5.21. This can also be done outside of the university premises to create a green city.

Figure 5.18 Kelaniya Green University



2000 00 00 112 /2014

Source: University of Kelaniya website,2014

3. Existing Environmental preservative Guidelines stipulated by the SLDC

As shown in Annexure 34, Gazette No 1662/17 of 14th July 2010 proposed reservation zone has been declared for open and closed canals under (Act No 35 of 2006) Land Reclamation & Development Corporation Act No. 15 of 1968, (Amendment No. 27 of 1976& No 52 of 1982) according to its width as mention in table 5.8. These are some legal enactments for the protection of watershed environmental systems.

Table 5. 5 Regulation Available for Canal Reservations

Canal		Allocated Reservation	
	Surface Width (Metre)	Open Canal (Metre)	Covered Area (Metre)
Hapugaha Wella, Mahara Mudun Ela	6.1-9.0	4.5	1.5
Eri Ela, Natha Ela, Mudun Ela, Kumbul Oya, Kalu Ela	9.0 >	6.5	2.0

Source: Sri Lanka Land Development Corporation Act (amendment) no. 35 of 2006 / Planning team-Gampaha District Office, 2021

These will have opportunities to minimize unauthorized acquisition, reducing flood sufferings in keeping with adequate canal reservations etc.

Threats | Goal 03

1. Identified 65% of land extent as urban heat generated area.

Heat extensive areas had been increased from 3% – 65% for a period of year 2006 – 2014. It is analysed for the Kelaniya DSD as per survey carried out by the University of Ruhunu. It has clearly mention in figure 3.6 in chapter 03 of this report. Accordingly, Kiribathgoda, Nungamugoda, Dalugama, Hunupitiya and Thalawathuhenpita areas are identified as high - risk heat generating settings.

2. Threat to degenerate of wetlands

A substantial number of low-lying lands are discontinuing daily due to unauthorized fillings for various development activities. Because as given in table 5.9, there is a high demand for import export cargo services in this area. Accordingly, the survey carried by the Survey Department has revealed that, there is a 28% wetland in Kelaniya area out of the total land extent in the year 2000. But at the present in the year 2017 landuse analysis total wetland areas have been reduced to 15%. The series of this green cover encroachment from 1992 to 2017 has shown in figure 3.4. This will increase the threat of floods & urban heat.

Import Cargo		Export Cargo	Export Cargo		
Region	Percentage	Region	Percentage		
Kelaniya	21.6	Kelaniya	24.7		
Colombo	17.0	Colombo	9.5		
Wattala	7.7	Wattala	11.6		
Dehiwela/Mt. Lavinia	6.0	Trincomalee	14.2		
Ja – Ela	5.1	Ja – Ela	7.4		
Kurunegala	4.2	Kurunegala	3.2		

Table 5.6 Warehouse & Stores Facilities for Imports & Exports Cargo in Kelaniya Area

Biyagama	3.3	Biyagama	2.8
Kaduwela	3.2	Kolonnawa	6.6

Source: Draft Peliyagoda Development Plan, 2017/ Planning team – Gampaha District Office, 2021

Industries have been immerged in adjacent area and expanded reclaiming low-lying lands with the development of industries in area of Peliyagoda. Presently Peliyagoda is known as highly facilitating areas for the provision of stores & warehouses. As a result, Industries & stores are spread-out low-lying areas due to the low land values. It has mention in Annexure 20. This will directly effective for discontinuing blue & green atmosphere.





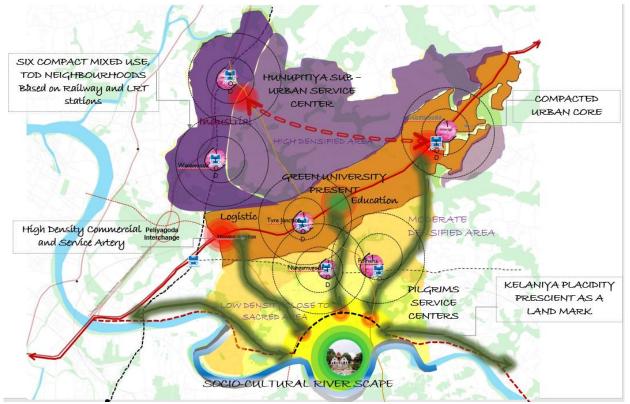
The Plan

Chapter 06 The Plan

6.1 Concept Plan

Concept Plan will briefly & simply specify the Kelaniya PS area at 2030. As such Kelaniya Sacred Area as the main juncture, Kiribathagoda high dense commercial centre as main economic & service centre locate in coupling the A 1 Main Highway, Kelaniya Green University area, Industries and stores towards Peliyagoda area, Hunupitiya, sub urban centre in minimizing Kiribathgoda high congestions, also all most all area for residential facilitating area for employed communities of Colombo & adjacent areas and will be proposed this area as transit-oriented development with the Modernization of Main Railway line and proposed Light Railway system.

Figure 6.1 Concept Plan





Although the Kelaniya is one of the main Cultural and Historical sacred areas of Sri Lanka, now its importunacy is gradually weakening with existing urbanization. Though urban spirituality in relation to culture, history and treasured importance could be developed even with the high urbanization but in the case of Kelaniya, it is a difficult task with heavy & vicious urbanization stretching towards north from the Kelaniya Temple. It is conceptualized low level densification towards high urban densification. At the present Kelaniya Sacred area directly link via the Colombo – Biyagama road. But it is aimed to create

direct linkages with the Colombo – Kandy Road in the year 2030, with a wider boulevard network relate to Kiribathgoda Commercial centre, Kelaniya higher education centre and areas of Peliyagoda industrial centre deviating Kelaniya Sacred place from such an urbanized accomplishment for the purpose of protecting cultural, historical hereditary.

With the idea of 'Urban Locus', Kiribathgoda Commercial city through the A 1 Main Highway will be further continued as a zonal commercial generating centre minimizing the development pressure and it constrains to the area of Hunupitiya since it has been a trend and a requirement in developing that centre as a sub urban centre. It is expected that Concentrating Kelaniya University, Dalugama & its environs is to be thinking higher educational institutes locate there in the idea of developing the Kelaniya University as the Green University. Facilities should be provided to locate an area for industries & stores at areas of Wanawasala & Hunupitiya.

At present this area playing a main role as a residential area while covering 58% from the total land area as residential area by facilitating for the resident's commuters who worked in Colombo and adjacent areas. With the purpose of minimizing existing traffic congestion, it is also expected to provide facilities for residential communities while incorporating with proposed railway modernization and Light Railways (LRT) centring Hunupitiya, Wanawasala, Nungamugoda, Kiribathgoda, Tire Junction, and Polhena areas.

The aim would be to minimize difficulties due to urban heat and floods in creating a green city. It is proposed to control floods by improving low-laying areas such as Mahara Mudun Ela, supplementary areas of Wanawasala MudunEla and Kelaniya riverbank conservation areas. Improving canal reservations with a green line and all roads running towards Kelaniya Temple showing appearance of a wider boulevard, according to the Conceptual Plan of Kelaniya Divisional Secretariat area, Kelaniya Sacred City would be a juncture of blessings the entire township. Apart from lining up & location of various activities such as commercial, industrial & warehouse, higher educational institutes are spread along either side of Colombo – Kandy Main Highway and sub urban centres founded on transit neighbourhood nodes.

6.2 Proposed Landuse Plan

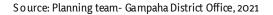
Kelaniya could be identifies as a High dense urbanized area. At present Kelaniya Divisional Secretariat area is the heaviest dense area of Gampaha District and projected density is 7878 persons per sq.km. This area had linked with national road network as in the past and now the area is more linked with other parts of the country through Express ways towards Katuunayaka and Colombo outer circular Expressway and also the Kandy Expressway which is being constructed. Acuity of relationships with other areas in the country is daily and gradually increasing presently the area is found to be a fruitful place within the area of Colombo inner core area.

Thus, the historical, cultural and religious importance is gradually diminishing. Presently, when consider the area of 1 km radius around the sacred area 10% of the area highly congested with industrial and related activities which may affected to diminish the value of sacred city. And also, it is recovered that entire low-lying areas are reclaiming used for unauthorized activities. A Plan has been underway for regulate landuse development by the year 2030.

As such it is important to have a comprehensive development plan taking all areas in identifying existing development potentials to prepare a future comprehensive physical Development Plan while protecting Historical Kelaniya. It should be prepared in a practical way that all buildings their height, density, shape, and colour should be compatible with historic Kelaniya and cliqued or stretched towards northern parts of the Kelaniya from the Kelaniya Sacred area as shown in figure 6.2. To further gradually establish this physical arrangement, the site should allow to expand only with approved uses which may compatible with the sacred area.



Figure 6.2 Cross-section of Proposed Special Physical Structure



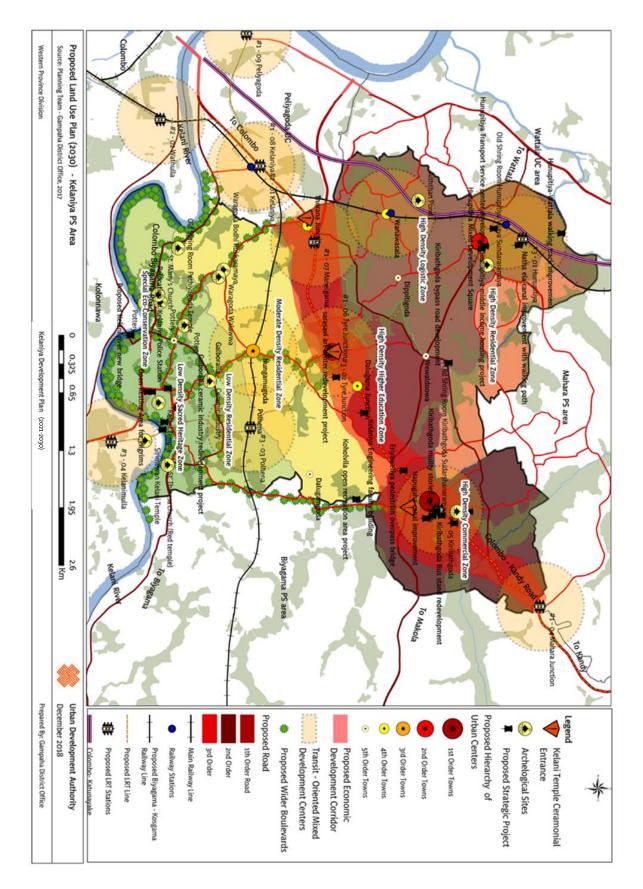
Adjoining towns will be expected to be developed minimizing traffic congestion prevailed at present in Kiribathgoda town as well as along Colombo – Kandy Main Highway by properly handling and centralizing of over-all public transport services. Accordingly, further develop the Kiribathgoda town as the main commercial spot by promoting various commercial activities with the vertical development. Hunupitiya will be developed as a 2nd category of township towards a road from Kiribathagoda to Hunupitiya and Wattala towns in considering the development trend towards Hunupitiya from Kiribathgoda. It is proposed to develop Hunupitiya as a sub centre with public transportation facilities while incorporating with electrification of Main Railway Line and newly proposed Light Railway Development. In addition, Wanawasala, Tire Junction, Nungamugoda and Polhena will be developed as small townships with centring the existing and proposed railway stations. Thus, these improvements would be expected to disperse commercial activities into hinterland. And also new housing schemes would be encouraged for improving housing expansion in Polhena, Koholvila, Nahena and Eriyawatiya areas.

It is expected a high dense development in northern part of the area. From northern part toward the sacred area should arranged as descending intensity of congestion of the urban characters from high dense to low dense when centring to the Kelaniya sacred area. Sacred area will further be layover it should be Kelaniya Temple be visible from Galborella area restraining high rise buildings expecting low dense housing stock in & around near space. Moreover, the Kelaniya sacred area will be connect with A 1 Main Highway through direct access with four wider boulevards from Kiribathgoda, Tire Junction, Thorana junction and Peliyagoda.

The area where currently experiencing frequent flooding of unauthorized and low-income housing adjacent to Kelani river north bank could be developed as a recreational area with socio-cultural river scape improvement while incorporating with Kelaniya Sacred Area Development Plan which prepared by National Physical Planning Department. It has proposed to link Egoda Kelaniya and Megoda Kelaniya via Kelani river. It may help to open-up the Kelani river north bank area for the purpose of attracting pilgrims and tourists while enhancing the sense of Kelaniya sacred city. Thus, it is expected to develop a Socio-Cultural River Scape Improvement at the Kelani river north bank while collaborating it with Kelaniya Raja Maha Viharaya.

An attention will be taken to conserve the green environment for the proper management of instant floods and in order to prevent the formation of high temperature zones while preserving the diminishing green shaded ecosystems in the region. It is being developed as a support to the green city concept based on the University of Kelaniya and the surrounding area, as an area for high density higher educational landuse with a green city concept.

According to the expected vision for the Kelaniya PS, by 2030 "The Urban Locus of Divinity" will be achieved through proper management of landuses and densities as gradually change the intensity of congestion toward the sacred area from the north part of Kelaniya PS area. The sacred city is expected to be established as the main historical and spiritual blessing point of the region. And also, it is expected to minimize the traffic congestion prevailed at the Town Centre towards hinterland sub urbanized town centres through behavioural landuse changes.



Map 6.1 Proposed Landuse Pla

6.3. Infrastructure Development Strategies

6.3.1. Service Management Plan

Under the Proposed Service Management Plan, an attention will be focused on residential, dormitory, urban service centres, education, health, & trade requirements. At the year 2030, to achieve heavenly urbanized situation transit based targeted residential development generating efficient and fruitful township which is the objective of service plan under infrastructure development plan. Thus, under the projected qualitative & quantitative analysis services should thrive for projected population of 141,000 residents and 500,000 migrants.

6.3.1.1 Proposed Housing Density

As per National Physical Plan, Kelaniya Divisional Secretariat area belongs to the proposed East-West Economic Corridor. It is expected a population increase by 20%- 25% by the year 2050 throughout this area. Accordingly, the population density will be 6,000 -10,000 persons per sq.km in the Kelaniya DSD. Based on this National Planning Intervention, the expected population growth is considered as 1.41% which is the Median Growth Rate of Population by counting the Grama Niladhari Divisions which present more than 1% population growth rate. Accordingly, the projected population will be 141,000 in the year 2030 and the expected population density will be 7,878 persons pre sq.km as clearly mention in the table 6.1. The existing population of 111,300 people will be increase by a total of 29,700 will be reaching a population of 141,000 in Kelaniya PS area in the year 2030. Apart from a percentage of 15% marshy lands, net density would be 9,271 per sq.km.

Hypotheses Population Density	Growth Rate	Year			Expected Population Density 2030	Expected Population Density 2050 (NPP)
		2011	2017	2030		
Natural Growth Rate	0.45	107,853	111,300	117,463	6,562	
Median value of Positive Popula- tion Growth Rate among GNDs	0.71	107,853	111,300	123,519	6,900	
Median Growth Rate of Population which are more than 1% Growth Rate	1.41	107,853	111,300	141,020	7,878	6001 - 10,000
Maximum Growth Rate among all GNDs	2.22	107,853	111,300	157,522	8,800	

Table 6.1 Projected Population Density for 2030

Source: Planning team – Gampaha District Office, 2021

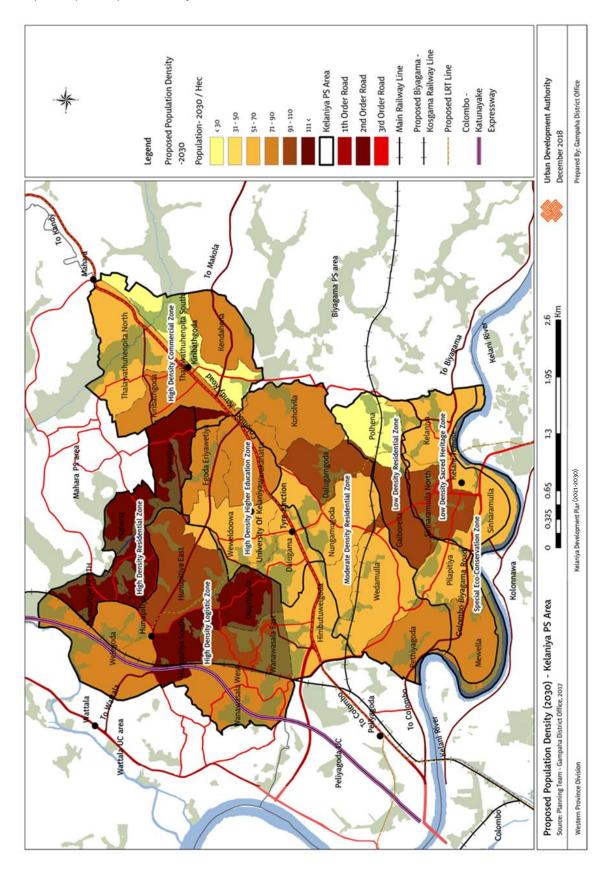
As shown in table 6.2, projected population has distributed among the proposed zones based on conceptual plan, Development pressure and Potential, Sensitivity and suitability analysis.

Zones	Proposed Name	Extent	Proposed	Proposed	Proposed	Proposed Housing
		(Hec.)	Population	Population	Housing	Density (Hec.)
			2030	Density (Hec.)	Units	
Zone 1	High Density Commercial	264.2	15,778	60	3945	15
	Zone					
Zone 11	High Density Higher	209.36	15,170	72	3793	18
	Educational Zone					
Zone111	High Density Logistic Zone	460.22	40,218	87	10,055	22
Zone 1V	High Density Residential	141.02	19,633	139	4908	35
	Zone					
Zone V	Moderate Density	335.57	26,229	78	6557	20
	Residential Zone					
Zone V1	Low Density Residential	177.08	12,639	71	3160	18
	Zone					
Zone V11	Low Density Sacred	148.59	11,353	76	2838	19
	Heritage Zone					
Zone V111	Special Eco-Conservation	53.49	0	0	0	0
	Zone					
Total		1789.53	141,020	79	35,255	20

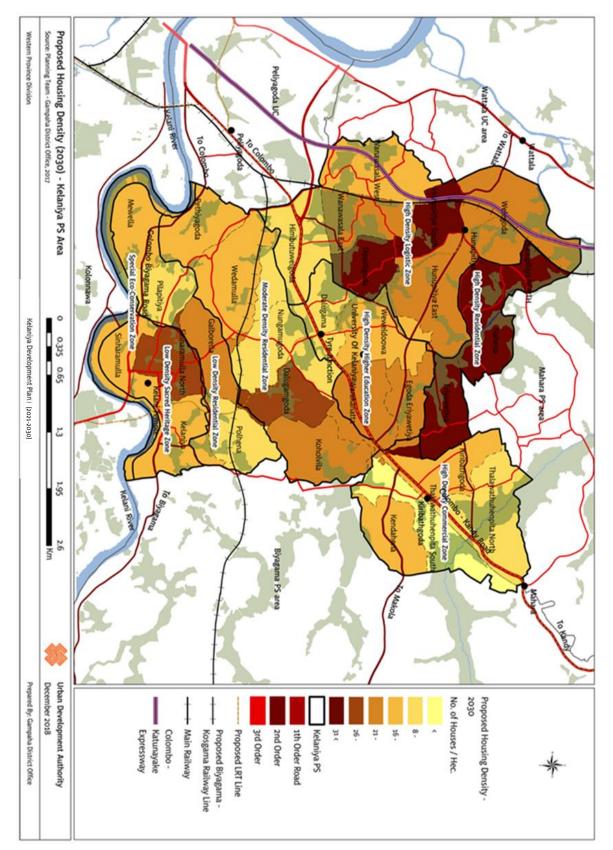
Table 6.2 Projected Population and Housing Density Distribution According to the Proposed Zones

Source: Planning Team – Gampaha District Office, 2021

Present Housing Stock is 26,855 units in the area. With the increase of population, the projected housing stock would be 35,255 units in the year 2030 as shown in above table. The raw housing and shanties stock of 904 units increase should be 9,304 units. Accordingly, the propose housing stock will be determined allowing higher density distribution in high land areas accommodating healthy and free from natural hazards and low-density distribution of housing units in low lying land, canals and areas closed to archaeological areas. In achieving transit-based development, in keeping with targets of vision 2030, six (6) transit-oriented development clusters accommodating modernization of main Railways and also Light Railways will be in mind and provision is provided for 60% of population's requirement. As such railway stations as well as light railway stations adjacent areas of Polhena, Galborella, Nungamugoda, Wedamulla, Eriyawetiya, Koholwila, Welegoda and Dippidigoda will be the places of Housing development under the Plan. Thus, proposed housing and population distribution has shown in map 6.2 and 6.3.



Map 6.3 Proposed Housing Density Distribution - 2030



6.3.1.2 Proposed Urban Service Centres Priority Plan

Kiribathgoda Town can be identifies as one of the main towns centres in western region which providing urban service. Since Kelaniya & Hunupitiya also identify as service centres such areas are not up to satisfactory level and thus an attention is focused on for internal towns development for the purpose of providing facilities for the convenience of residents and commuters. The existing town centers and neighborhood nodes have prioritized based on their expected levels considering Development Pressure, Sensitivity, Residential Land Suitability, Potential and proposed projects as per annexure 36. Summary of the prioritized levels of town centers have mention in table 6.3.

Proposed Priority Level	Town Centres			
1st Priority Towns	Kiribathgoda			
2nd Priority Towns	Hunupitiya			
	Tyre Junction			
3rd Priority Towns	Nungamugoda			
	Thorana Junction			
	Dalugama			
4th Priority Towns	Polhena			
	Wanawasala			
	Galboralla			
	Sinharamulla			
	Kelaniya			
5th Priority Towns	Wewalduuwa			
	Dippitigoda			
	Dalugamgoda			

Table 6.3 Proposed Hierarchy of Urban Centres

Source: Planning Team – Kelaniya Development Plan, 2021

Kiribathgoda is fourth category town in the Western region at the present. According to the existing services, most of the public services such as a based hospital, public market and a bus terminal is concentrated on Kiribathgoda city centre. Apart from that proposed Light Railway Station will be developed at Kiribathgoda town. Further based on all these potentials it is proposed to develop as the first priority city in the area which facilitate more than 220,000 commuters by 2030.

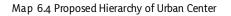
Development pressures concentrated in Kiribathgoda Town that potential trend reach towards Hunupitiya. In addition, direct impact of proposed Light Railway station, railway electrification also affects for Hunupitiya town. It helps to develop the area as transport service-based town centre. Apart from Hunupitiya, Tire junction is also expected to be developed as the second order city in the region due to the impact of proposed Light Railway station. Thus, according to the proposed density zone by 2030, such zone and its town centres which expected to accommodate 80,000-150,000 of commuter population is proposed

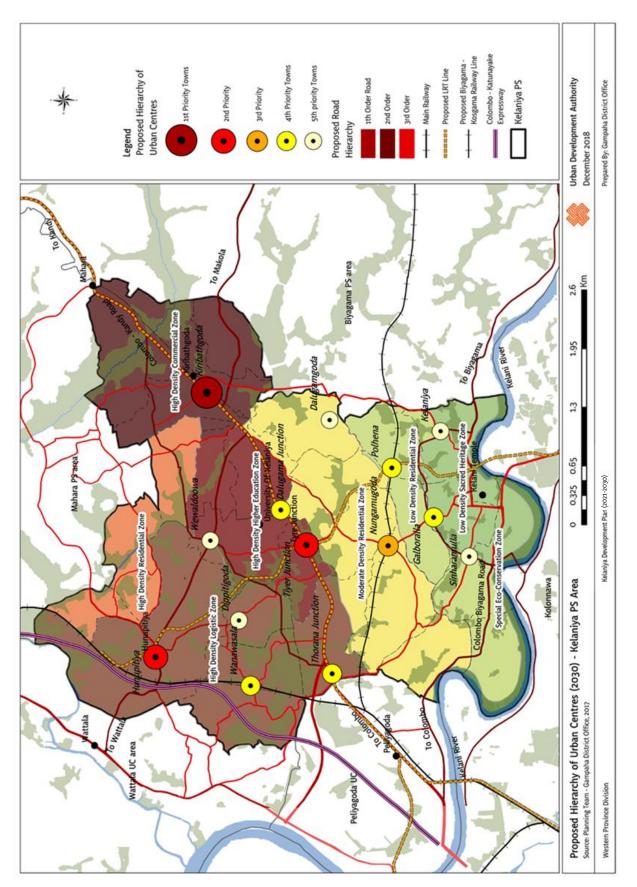
developed as a second priority town centre. This second priority town may consist with a railway station or a Light Railway station or a combination of both which facilitate for both residents and commuters.

Nungugugegoda is expected to be developed as the third priority neighbourhood centre, covering less than 50,000 of the commuter population, which facilitate low and moderate Density Zones. The area is expected to develop with the proposed Biyagama-Kosgama railway line and its station. In addition, Thorana junction, Dalugama, Polhena, Wanawasala and Galboraella junction is expected to develop as the fourth priority town centres. These towns need to be developed to facilitate for less than 20,000 of the residential and commuter population. Accordingly, it is expected to provide day-to-day services specially with the transportation facilities.

Sinharamulla and Kelaniya nodes which included in to proposed Low Density Zone and Dalugamgoda, Dippitigoda and Wewalduuwa which included to High Density Zone also proposed to develop as small-town centres where retail, health services and others will be concentrated. It expected to accommodate less than 5,000 residential inhabitants.

Thus, when developing Kiribathgoda town as the main town centre in the areas, Hunupitiya and Tire junction will become as a second priority towns. Nungamugoda is also considered as the third priority city in the transit-oriented neighbourhood development cluster. And Thorana junction, Dalugama, Polhena, Wanawasala and Galboralla will be develop as Fourth Priority Town Centres. Here Galboralla is expected to function as a main centre in the Kelaniya sacred area which provide facilities for both local and foreign pilgrims. In addition, Sinharamulla, Kelaniya, Wewalduuwa, Dippitigoda, and Dalugamgoda centres will be developed as Fifth Order Town Centres while Kelaniya and Sinharamulla function as service commercial nodes which facilitate for pilgrims. The location of all these priority nodes is mention in map 6.4.





6.3.1.3. Educational Services Plan

When consider the existing education facilities in Kelaniya area which functioning as a main residential area, whole area included to Kelaniya Educational Zone. As shown in table 6.4, there are 25 of schools in DSD including 3 of National schools. At the present, 29,169 of students are accommodate within this schools.

Table 6.4 Schools in Kelaniya DS Division

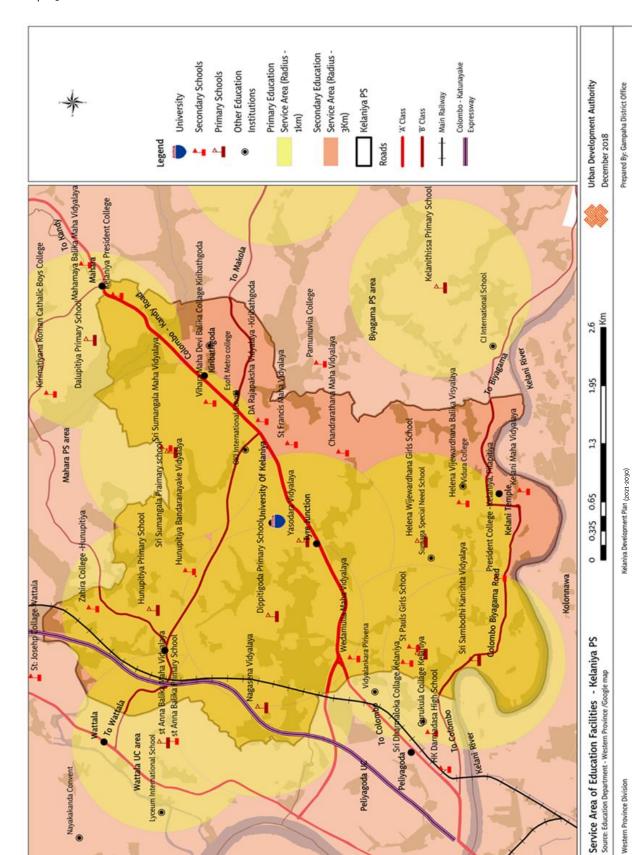
DSD Name	National	1 AB schools	1C Schools	2nd	Grade	3rd	Grade	Total
	Schools			Schools		Schools		
Kelaniya DSD	3	2	9	5		6		25

Source: Statistics Handbook – 2016, Census & Statistics Department

Out of the 25 of schools, 21 schools are located within the Kelaniya PS area including 2 Central College, 11 of Maha Vidyala. According to the existing population in Kelaniya DSD in the year 2016, can be identified 22% of are school age population as shown in annexure 37. Thus, 24,300 of school attending population in the Kelaniya PS area and 24,902 of students are accommodate within 21 of schools which are in this area including the students who come from the area outside of Kelaniya PS area. Based on the proposed population by 2030, the student population would be 27,192.

When consider the primary education, there are 7 primary schools spread in the Kelaniya PS area and 1 Km of their service range cover the whole area. There are also 84 preschools accommodating 1,500 children. In addition, there is a large trend for international schools in the area. In considering secondary education, 2 Central Colleges, 11 Maha Vidyala, are dispersed within the area and it has already covered their 3 Km radius of standard service coverage. Accordingly, as shown in map 6.5, Primary and Secondary educational institutions and their service coverage is quite enough for expected population by 2030. In addition, it is proposed to further improve the facilities in Hunupitiya Sahira College, Hunupitiya Primary School, Hunupitiya Bandaranayaka Vidyalaya, Sri Sumangala Primary School, Nagasena Vidyalaya, Dippitigoda Primary School, Yashodara Vidyalaya and Sri Sumangala Vidyalaya which included into the proposed High-Density Zone.

Considering the Higher education sector, the University of Kelaniya is located within the Kelaniya PS area and as per 2014 / 2015 annual report in the Kelaniya University it has providing the accommodation for 16,000 of students both local and foreign. And the number of external students is 41,100. Thus, this University has originated with 6 Faculties in the year 1975; yet it is now necessary to have an Engineering Faculty as well considering the projected 20,000 students in the year 2030. And it should be established in keeping with the Green University concept.



Map 6.5 Distribution of Educational Facilities

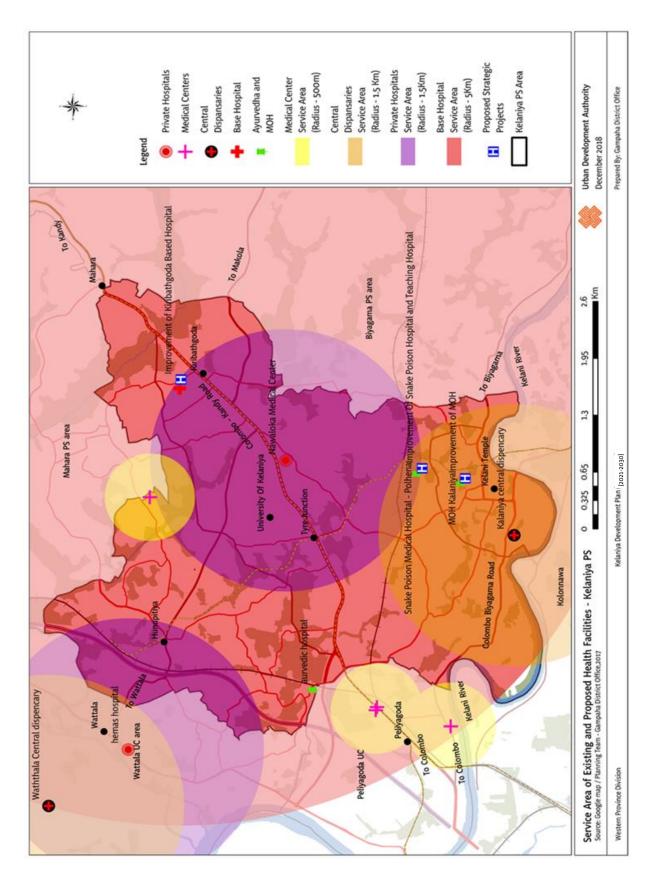
6.3.1.4. Health Facilities

In considering the Health Facility in the land area of 17.9 sq.km with a population of 111,300 persons in the year 2017 that the Kiribathgoda Base Hospital is vital importance. Presently among 3 of based hospitals in Gampaha District such as "A" Grade Base Hospital in Wathupitiwala, "B" Grade Base Hospital in Meerigamain and "B" Grade Base Hospital in Kiribathgoda, Kiribathgoda Based Hospital is in the Kelaniya PS area. It is consisting with 5 wards and has 81 beds. As per District Report of Census 2016, the Kiribathgoda Based Hospital has accommodating 16,508 of indoor and 149,423 of outdoor patients during this year. When consider the standard service coverage area of a based hospital as 5 Km radius, it has covered the whole Kelaniya PS area. Considering the Govt. Central Dispensaries, Kelaniya & Sinharamulla Central Dispensaries and also a network of private clinics covers entire health facilities in the region.

Kelaniya Ayurveda Dispensary and Kiribatgoda Ayurveda & Panchkarma dispensary are important in considering Ayurveda health care in the area. It is also very importance that national & internationally reputed Polhena Snake Poisons Hospital & College also located in this PS area. This poisons Hospital was established in the year 1984 in order to conserve local inheritance Ayurveda Snake poisons hospital at Polhena in the Kelaniya DS Division. At the present, this is the only Poisonou s Healthy Institution in Sri Lanka which consist with poisonous medical college. Entrance to this college is limited to 20 - 25students in a year out of 200 - 250 applicants. It is proposed to improve the capacity of this traditional hospital in the future.

Subsequently, health services facilities are rather up to the absolute level with the projected population of 141,000 persons in the year 2030, and it is appropriate to upgrade Kiribathagoda Base Hospital to A Grade Base Hospital accommodating 200 beds for indoor patients covering the land extent of 2.7 hectares. At the present whole Kelaniya PS area covered by the one MOH which located in Kelaniya Grama Niladhari Division. But based on the projected population in the year 2030, it should further develop to facilitate expected population. Specially, the existing Poisonous Hospital & Medical College also upgrade and modernized to facilitate for both residents, commuters and students.

Thus, all these proposals and existing service coverages are shown in map 6.6.

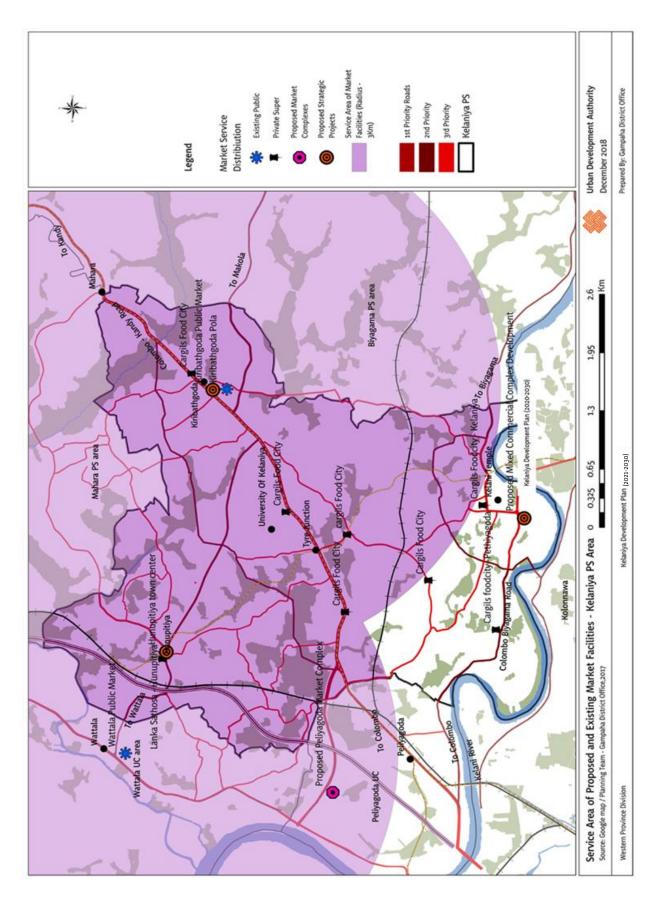


6.3.1.5. Public Market Services

It is important to consider the common trade services for large number of internal and migrants' population who visit this region regularly.

Kiribathgoda Market and Weekly fair are catering common marketing for an internal population of 111,300 persons in addition to nearly 200,000 commuters who come daily to the town. When consider the 3 Km of service coverage in Public market, it has covered more than 2/3 of area apart from Mawella, Sinharamula and Pilapitiya areas in the southern part of Kelaniya PS area. At the same time, communities in Hunupitiya area get the market service from Wattala Market and also private sector trades stretched all around the area. However, Kiribathgoda Pubic Market centre together with the weekly fair is providing services to the entire region; yet there will not be satisfactory level for facilitating for the projected population of 141,000 in the year 2030. Since the upper floors of Public Market Building is not functioning due to its dilapidated condition. But when developing this area as a High-Density Commercial Zone, it is expected to re-develop this Public Market with the modern facilities.

It is also expected to encourage a Public Market complex at the Hunupitiya town as well in order to cater the existing market trends. Market extensions along the roadsides make a necessity for proving adequate spaces for such activities by forming a public market complex in this town. In addition, all the trade facilities are to be provided to communities within the proposed Transit-oriented service nodes. All these proposals and service areas are shown in map 6.7.



6.3.1.6. Hostel Facilities

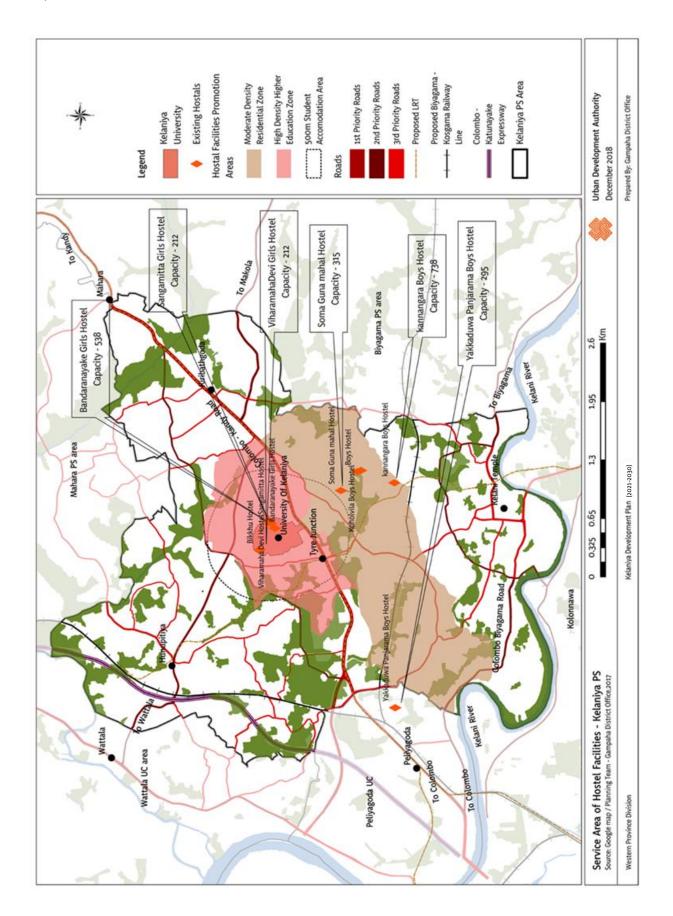
In the year 2017, 16,120 of students are accommodating in the University of Kelaniya. Out of these total students, accommodation facilities are providing for 3,958 of both male and female students. Others are accommodating in and around the region permanently or temporary.

Name	Year of Established	Capacity of	Male/Female
		Students	
Bandaranayake	1965	538	Female
Viharamaha Devi	1997	212	Female
Hemachandra Rai	2000	200	Female
Ediriweera Sarathchandra	1993	108	Female
EW Adikaram	2000	140	Female
Sangamiththa	1997	212	Female
Gunapala Malalasekara	1996	153	Female
Sir D B Jayathilaka	2015	495	Female
Yakkaduwe Paranganarama	2009	295	Male
C W W Kannangara	2005	738	Female
Soma Gunamahal		315	Female
Bulugaha Junction		200	Female
Seevali Mawatha		100	Female
Mahara Junction		100	Female
Seevali Mawatha		80	Male
Kethage Watte		72	Male/Female
Total		3958	

Table 6.5 Permanent Hostels – University of Kelaniya

Source: Annual Report 2014-2015, University of Kelaniya/ Planning Team – Gampaha District Office, 2021

Presently, if providing the accommodation facilities for 80% from the total student population it should provide 12,896 of students considering the students who come out of the western region. But prevailing capacity of dormitories is only for 3,958 students. Yet total number of students who reside outsides of the university premises which counts about 8,900. In counting the total studentship with the proposed Faculty of Engineering in the year 2030 it would be 20,000 and out of which 80% internal dormitory facility is to be fulfilled. It is therefore expected to provide accommodation for around 16,000 students. Hence it proposed to facilitate around 12,000 of additional new accommodation within the Higher Education Promotional Zone. All these proposals and service areas are shown in map 6.8.



6.3.2 Road and Transportation Plan

Kiribathgoda Town can be identified as a nearest town to the Colombo Commercial Capital among the town centres which concentrated to A1 Main Highway. A1 Main Highway which links to northern, eastern, north central and central part of the country containing with high traffic congestion all over the day. More than 150,000 vehicles a day reaching Colombo through this road. Traffic congestion is more effect in Kiribathygoda town and other nearby locations of Kelaniya University and Tire Junction of Dalugama as proximate area to the Colombo CBD.

According to the Seventh Policy of the Ten Commandments of the present Government manifesto, a circular light rail system (LRT) will be constructed for the convenience of the daily commuters to Colombo.It will also reduce traffic congestion on major intersections, create a small flyover system and add a mechanical vertical parking yard system to each major city. Accordingly, steps have been taken to formulate plans in the Kelaniya Development Plan taking into account the new approach of physical space, through the National Manifesto.

Vision and targets created by the year 2030 is determined an efficient & fruitful town founded on smoothen traffic & transportation network. Accordingly, it has proposed to achieved the objectives such as to positioning the Kelaniya Sacred area as a centre point with direct accessibility toward the sacred area by the year 2030, to establish efficient transport system through a hierarchical road network by the year 2030, and to established 6 transit-oriented development clusters based on proposed railway electrification and new Light Railway through an efficient Road and Transportation Plan. For that there are 3 specific strategies under the Transportation Plan as described below.

6.3.2.1 Promoting an alternative road hierarchy connecting Colombo – Kandy Main Highway to overcome the existing traffic congestion

It is anticipated to improve & widened alternative roads, weakening road existed areas by developing linking new road hierarchy and new alternative road to be established in further while establishing the existing A 1 Main Highway as the First Priority artery.

As such it is proposed to construct an alternative road deviating Kiribathgoda Town as an alternative way to A 1 Road. It will be a Second Priority Road which link Peliyagoda and Mahara Junction via Dippitigoda, Wewalduwa & Eriyawetiya deviating the Kiribathgoda town.

At the same time, Hunupitiya Road will be developed with four lane road along with a service line as well. With the anticipated improvement in the year 2030, in centralizing & modernizing of Main Railways and Light Railways, together a transport services the Hunupitiya town to be developed as a sub town centre. It is also identified Hunupitiya and Wanawasala area of encouraging Logistic & Industrial Promotion Zone. Thus, roads in this area proposed to be improved as 3rd priority roads by providing up to two lanes.

Table 6.6 Proposed Road Hierarchy

Road Hierarch	у	Road	Existing &	Proposed Width (M)	Proposed
			Proposed		Length (Km)
1st Priority Ro	ad	Colombo Kandy Road (Peliyagoda to Mahara 6 Km)	Existing	 Total Width -30m (4 Lanes / Centre Line for LRT/ Service Lane) Carriage way – 14m Parking & Bicycle Lane – 5m Center Island (LRT Service Corridor)- 6m Side Walk with Landscaping & Utility Service Lines – 5 m 	-
2nd Priority	'A'	Colombo – Biyagama Road (B 214)	Existing	• Total Width - 30 m (4 Lanes /	-
Road	Category	Proposed New Kelani Velley Crescent Road	New	Service Lane) • Carriage way – 14m	4.1 Km
		Hunupitiya – Wattala Road (B 151/B 220) Kiribathgoda – Makola Road (B 221)	Existing	 Parking & Bicycle Lane – 5 m Center Island - 3m Side Walk with Landscaping & Utility Service Lines – 8 m 	-
	'B' Category	Proposed New Bypass Road from Peliyagoda to Mahara via Wewalduwa , Eriyawetiya.	New	 Total Width - 30 m (4 Lanes / Service Lane) Carriage way - 14m Parking & Bicycle Lane - 6 m Center Island - 3m Side Walk with Landscaping & Utility Service Lines - 7 m 	4.75 Km
3rd Priority Road	'A' Category	Hunupitiya Railway Station Access Road Kiribathgoda Hospital Access Road Dalugama – Kelaniya Dalugama Wewalduwa Road Dipitigoda Hunupitiya Road Galborella – Polhena Kiribathgoda – Iriyawatiya Road Kiribathgoda Housing Scheme Road Lumbini Mawatha Pilapitiya- Gonagampala	Existing	 Total Width - 15 m Carriage way – 7 m Parking & Bicycle Lane – 4 m Side Walk with Landscaping & Utility Service Lines – 4 m 	-

	'B' Category	Padiliyathuduwa – Hunupitiya Road Waththala thelagapatha Waththala Wanawasala Thorana Junction- Kelani Temple Road (Waragoda Road) Tire Junction – Kelani Temple Road (Nungamugoda Road) Kiribathgoda to Kelani Temple Road via Koholvila (Koholvila Road)		 Total Width - 15 m Carriage way - 7 m Bicycle Lane - 3 m Center Island -Tree Corridor 2 m Side Walk with Landscaping & Utility Service Lines - 3 m 		
4th Priority	All other ro	bads including Pradeshiya Saba (PS)	Roads should	be maintaining minimum 6m of road width except		
Road	proposed 1	st to 3rd priority roads				
	 Total Width - 12 m 					
	 Carriage way – 6 m 					
		Valk with Landscaping & Utility Servic	ce Lines – 6 m			

Source: Planning Team – Gampaha District Office, 2021

Colombo – Biyagama Road will further continue as a 2nd priority road in increasing accessibility to Kelaniya Temple from Colombo – Kandy Road. A road system will be improved from Torana Junction to Kelaniya Temple, Tire Junction to Kelaniya Temple and Kiribathgoda to Kelaniya Temple as 3rd priority roads. There are two objectives in having these improvements. They are to improve the higher accessibility with A 1 Road to Kelaniya Sacred Area and also connecting Kolonnawa allowing better linkage to Colombo and Battaramulla.

Since all these roads are concentrated & seemed congested closed to the Kelaniya Temple and more than 1/3 of vehicles which connected with Biyagama EPZ also travelling through the Colombo – Biyagama Road which laying proximity to Kelani Temple. Therefore, to overcome these inconvenience situations which may arise with traffic congestion and noise, it has proposed to develop new Kelani Valley Crescent Road via Pilapitiya, Galborella, Koholwila and hereafter linked to the Colombo – Biyagama Road again as a four-lane roadway.

This road hierarchy is shown in table 6.6 and map 6.9. And the Cross section of the expected situation of every road hierarchical structure is shown figure 6.3 to 6.8.

Figure 6.3 Proposed Road Section for 1st Priority Roads

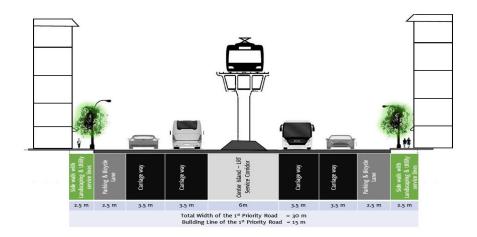


Figure 6.4 Proposed Road Section for 2nd Priority "A" Category Road

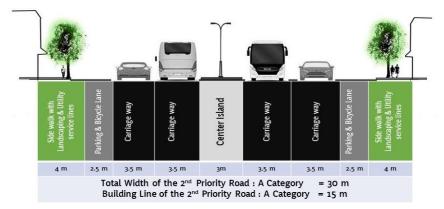


Figure 6.5 Proposed Road Section for 2nd Priority "B" Category Road

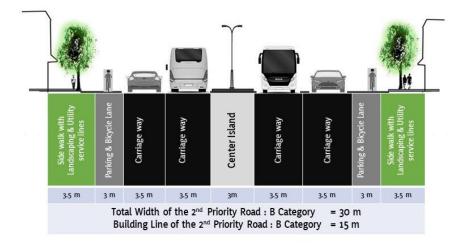


Figure 6.6 Proposed Road Section for 3rd Priority "A" Category Road

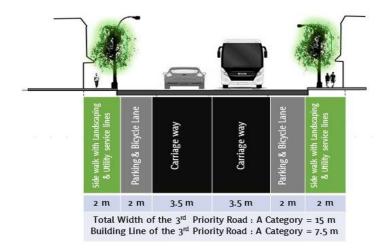


Figure 6.7 Proposed Road Section for 3rd Priority "B" Category Road

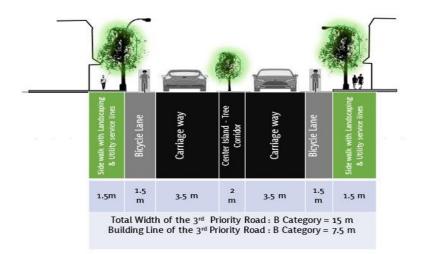
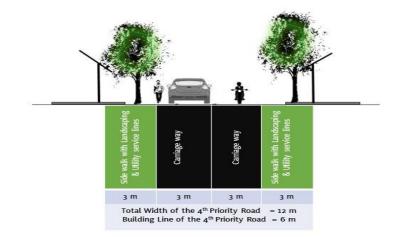


Figure 6.8 Proposed Road Section for 4th Priority Roads



Source: Planning Team – Gampaha District office, 2021

6.3.2.2 Improve the Accessibility toward Colombo – Hanwella Low Level Road through Kelani River

Presently, morning & evening in the Sirimewan Kelaniya Bridge appeared heavy traffic congestion. But it would be a solution to ease the existing traffic congestion prevailed along the Baseline Road and Colombo – Kandy Road allowing easy move of vehicles to Kotikawatta – Muleriyawa area through this bridge towards Egoda Kelanya. A new bridge over Kelaniya River is proposed from the area of Sinharamulla and Pilapitiya in order to increase accessibility to Kolonnawa crossing the river. Accordingly, through the proposed road network which connect the Colombo – Kandy Main Highway and Kelani Temple which proposed under the strategy of establishing a hierarchical road network would lead to increase the accessibility toward the Hanwella Low Level Road.

6.3.2.3 Promoting the Public Transportation Service while incorporating with Railway electrification and Proposed Light Railway Transportation service.

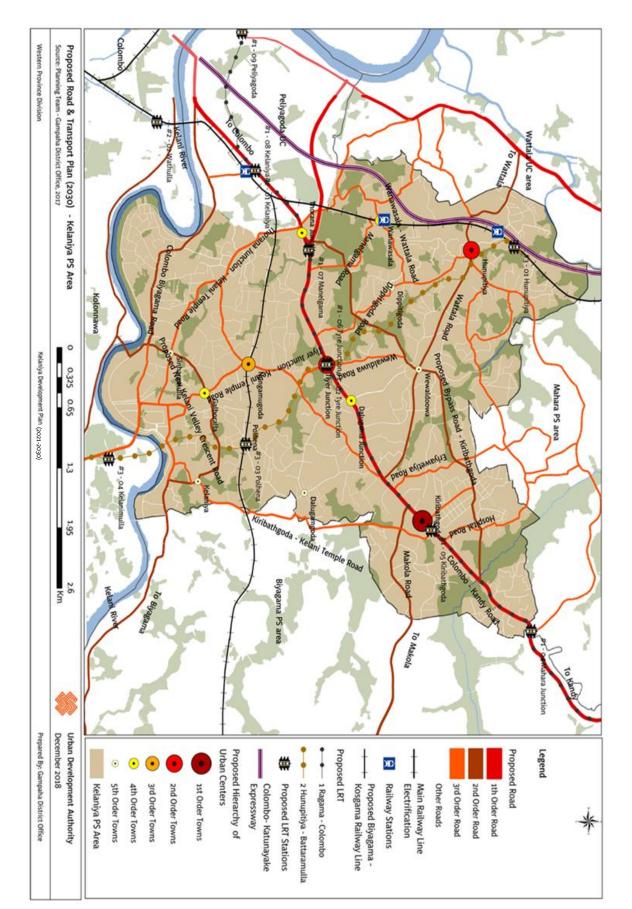
As a third strategy, it has proposed to encourage the Public Transportation Service incorporating with proposed Railway electrification, new Biyagama – Kosgama Railway line and proposed Light Railway system. Under the Railway electrification, it has proposed to electrify the Main Railway Line from Panadura to Veyangoda, based on that Wanawala and Hunupitiya Railway stations which include to the Kelaniya PS area to be upgraded further with modernized transport facilities. And also new Railway station at Nungamugoda will be erected under the proposed Railway line from Kelaniya to Kosgama under the Proposed New Railway Modernization Plan for year 2021.

In addition to this Railway modernization, an attention has been focused on to incorporate the proposed Light Railway system as well. Considering the proposed Ragama – Narahenpita Light Railway track, Kiribathgoda and Tire junction and also Hunupitiya, Tire junction and Polhena nodes in line with the proposed Hunupitiya – Kottawa new Light Railway track will be develop as a Transit-oriented neighbourhood node. With this improvements Hunupitiya town centre will be further developed as a Transit Node which provide Railway, LRT and Bus services.

All these proposals and their locations are shown in map 6.9. The expected changes with all these proposals have competed with the existing situation using the Spatial Integration Analysis as shown in Annexure 38.

Kelaniya Development Plan (2021 -2030) Urban Development Authority

Map 6.9 Proposed Roads & Transport Plan



6.3.3 Water Supply Plan

There seems to be various water supply sources are existed at present. As per statistical data of the Dept. of Census & Statistic in 2012, around 72% of housing units used pipe bone water as shown in below table 6.7.

	Drinking Water Sources					
Kelaniya DSD Area	Safe well within the Area	Safe well outside of the Area	Pipe born water inside the Unit	Pipe born water sur-rounding area not in the Unit	Pipe born water usage outside of the Area	Pipe born water
	13%	1%	72%	11%	2%	1%

Table 6.7 Drinking Water Sources – Kelaniya DSD Area

Source: Sampath Pathikada, Kelaniya DSD – 2019

According to the website report of the National Water Supply and Drainage Board in year 2018, 77.37% of houses were getting pipe borne water in Wattala and Kelaniya areas which included to Kelaniya water supply administrative zone.

According to the standard calculations as shown in table 6.8., there was a requirement of 17,785 m3 for the consumption of residential, commercial, industrial, hospital purposes & for the daily commuters in the year 2017.

Table 6.8 Current Water Demand in Kelaniya PS Area (2017)

Current Water Demand – Kelaniya PS (2017)			
Category	Amount	Demand for 1 unit	Daily Water Demand (m3	Supply
		(LPCD)	/day)	
Residential	111,300	135	15,026	
Residential students – University of	3,958	135	534	
Kelaniya				Distribution
Base Hospital – Kiribathgoda	81	350	28	capacity of water
Employees in Commercial & Services	44,687	20	894	per day
				71,000m3 for
Industry Workers	11,164	50	558	Kelaniya &
Customers	133,900	5	670	Wattala Area
Pilgrims at Kelani Viharaya	15,000	5	75	
Total		1	17,785	

Source: Planning Team Gampaha District Office, 2021

Drinking Water requirement of the Kelaniya Area is supplied by the Kelani River South Bank Water Treatment Plant. The daily capacity of this treatment plant is 180,000 m3 and it distribute drinking water for towers of Biyagama, Church Hill, Ragama, Kadawata, Welisara, JaEa, Kandana & Ekala. Among them the water requirement of Kelaniya and Wattala areas are fulfilling

by the Church Hill Ground Water Tank and it distribute 71,000 m3 of water capacity for these areas. As such adequate water supply is being carried out daily.

Considering the water demand for projected population in the year 2030, all sectors may require nearly 27,552 m3 per day of water requirement as shown in table 6.9.

Table 6.9 Water Demand for Forecasted Population in Kelaniya PS Area - 2030

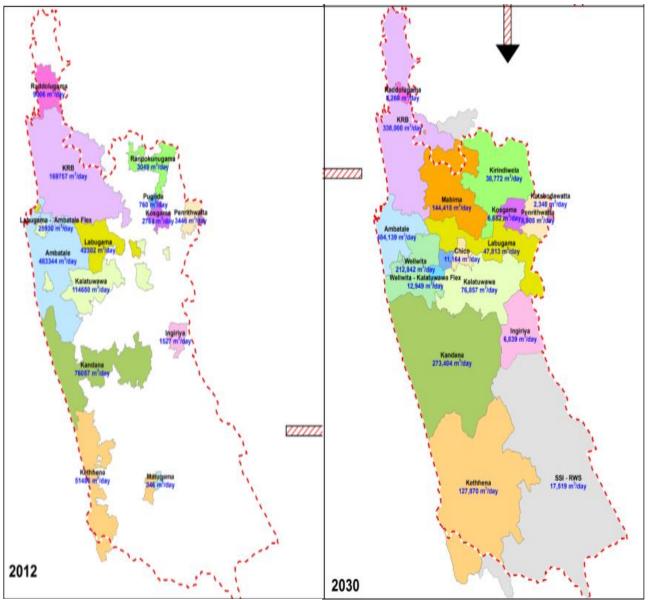
Water Demand for Forecasted Population - 2030					
Category	Amount	Demand for 1 unit (LPCD)	Daily Water Demand (m3 /day)	Supply	
Residential	141,020	135	19,038		
Residential students – University of	16,000	135	2,160		
Kelaniya				Proposed distribution	
Base Hospital – Kiribathgoda	200	450	90	capacity of water per	
Employees in Commecial & Services	144,112	20	2,882	day 108,000 m3 for Kelaniya & Wattala	
Industry Workers	32,019	50	1,601	Area	
Customers	336,262	5	1,681		
Pilgrims at Kelani Viharaya	20,000	5	100		
Total	1	L	27,552		

Source: Planning team – Gampaha District Office, 2021

As per the table 6.10, figure 6.9 and 6.10, National Water Supply & Drainage Board will be able to fulfil the required demand in the year 2030, with the proposed Right Bank Water Treatment Plant Improvement Project – Stage II. Because it is expected to increased capacity up to 360,000m3 per day in the year 2021. With this capacity improvement, it has proposed to distribute 93,000 m3 of water per day for Kelaniya and Wattala areas in the year 2021. In addition, with the proposed Mabima water treatment project by the year 2030, the existing water distribution for the Biyagama area from the Kelani River Right Bank Water Treatment Plan will be discounted and distribution capacity for Kelaniya and Wattala areas will be up grade up to 108,000 m3. Table 6.10 Water Capacity of Proposed Projects & the Forecasted Water Demand

Year	Water Capacity of Kelani River Right Bank	Daily Demand in	Distribution Capacity (for Kelaniya
	Water Treatment Plant	Kelaniya PS	and Wattala)
2017	180,000 m3/d	17,785 m3/d	71,000 m3/d
2021	360,000 m3/d		93,000 m3/d
2030	360,000 m3/d	27,552 m3/d	108,000 m3/d
2040	360,000 m3/d		129,000 m3/d

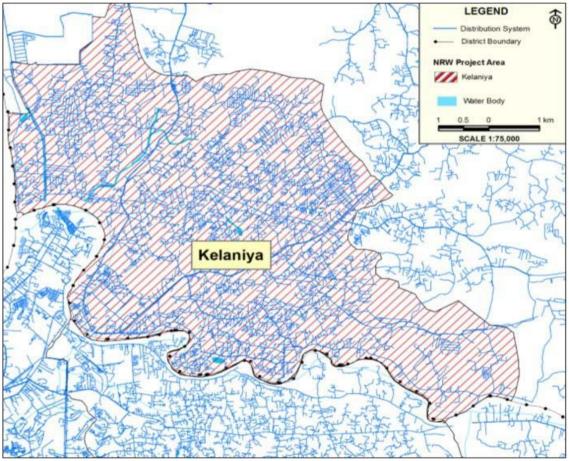
Source: Western Province Water Supply Master Plan – Volume I-2013 / Planning Team – Gampaha District Office, 2021 Strategie Figure 6.9 Increasing Water Capacity Relation to Proposed Projects



Source: Western Province Water Supply Master Plan - Volume 1-2013

Kelaniya Development Plan (2021 -2030) Urban Development Authority

Figure 6.10 Increasing Water Capacity Relation to Proposed Projects in Kelaniya Area

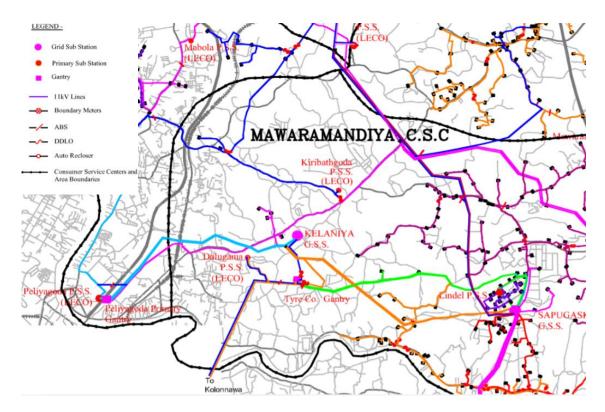


Source: Western Province Water Supply Master Plan - Volume 1-2013

Apart from increasing the capacity of Treatment Plant, this project has been proposed to evade the leakages of existing pipelines up to 100%. Accordingly, the National Water Supply and Drainage Board has already decided the arrangement for adequate water supply to meet the water requirements projected population by the year 2030.

6.3.4 Electricity Supply Plan

Discussions are carried on for the purpose of fulfilling electricity requirement under the Infrastructure Development Plan. Actions in relation to Supply of Electricity for Projected Electricity demand for residential, Services and Industries in the Kelaniya PS has discussed. It is essential to have an efficient & fruitful supply of electricity for this proposed Transit-oriented development area and all other sectors to achieve the future vision. According to the Western Province Electricity Distribution Zoning, Gampaha District including Kelaniya PS area belongs to the Western Province – Northern zone and Kelaniya PS is belonging to Kelaniya Sub-Station. 98% of the electricity demand in Kelaniya area is covered by the National Electricity Supply System. The existing electricity distribution network has shown in figure 6.11. Figure 6.11 Existing Electricity Network in Kelaniya Sub-Station Area - 2017



Source: Ceylon Electricity Board, 2016

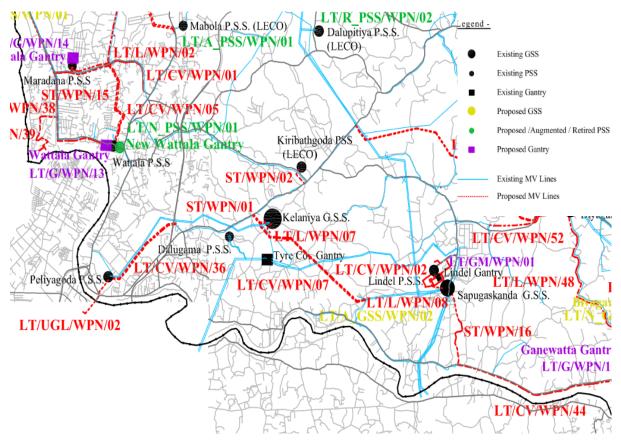
Accordingly, there was Kelaniya sub-station, Kelaniya primary sub-station and a Grant near Kelaniya Tire Co Ltd within the Planning boundary of Kelaniya PS area.

Numbers of projects are designed for fulfilling the future demand of electricity supply in the year 2030. According to the Megapolis Plan, it has proposed to supply 600 MW of electricity for the National Grid system by Proposed Kerawalapitiya next Stage Project. This will generate additional electricity for the power supply in the Western Province.

In addition, steps have been taken to provide an optimum electricity supply to the area through short term and long-term projects under the proposed projects of 2016-2025 by National Electricity Board as shown in figure 6.12 and table 6.11.

Kelaniya Development Plan (2021 -2030) Urban Development Authority

Figure 6.12 Proposed Electricity Distribution Lines 2016 - 2025



Source: Ceylon Electricity Board, 2016

Project	Project No.	Description
Electricity	ST/WPN/01	From Kelaniya electricity substation to Kiribathgoda regional electricity substation
Network		(new 0.5km 33kV DC Lynx Tower line)
	ST/WPN/02	From Kiribathgoda regional Substation to Colombo – Kandy Road (New 0.8km 33kV SC
		Lynex Pole line)
	LT/L/WPN/07	From Kelaniya electricity substation to Kiribathgoda regional electricity substation
		(33kV SC Lynex Pole, distance km.0.2
	LT/CV/WPN/07	From Old Kandy Road (Tyre Junction) to Gonawala (33kV DC Raccoon Pole/33kV DC
		Lynex Pole, Distance km. 3)

Table 6.11 Proposed New Electricity Network Projects 2016-2025

Source: Ceylon Electricity Board – 2016

Thus, Ceylon Electricity Board has already proposed to achieve the probable demand for the year 2030 through the ways of new arrangements.

6.3.5 Drainage and Sewer Lines Management Plan

It is important to consider the Drainage and Sewer Lines Management in the area as a most densely populated area of the Gampaha District.

According to the existing residential population and commuter population in the year 2017, it is generated 14,228 m3 of wastewater per day if 80% from the consumption as wastewater.

Category	Amount	Demand for 1 unit	Daily Water Demand	Wastewater
		(Lpcd)/(L/m3)	(m3 /day)	Generation (80%
				from Water
				Consumption - m3/d)
2017				
Residential	111,300	135	15,026	12,020.40
Residential students – Hostel	3,958	135	534	427.46
University of Kelaniya				
Base Hospital – Kiribathgoda	81	350	28	22.68
Employees in Commercial & Services	44,687	20	894	714.99
Industry Workers	11,164	50	558	446.56
Customers	133,900	5	670	535.60
Pilgrims at Kelani Viharaya	15000	5	75	60.00
Total			17,785	14,227.70
2030			I	
Residential	141,020	135	19,038	15,230.16
Residential students – Hostel				
University of Kelaniya				
	16,000	135	2,160	1,728.00
Base Hospital – Kiribathgoda	200	450	90	72.00
Employees in Commercial & Services	144,112	20	2,882	2,305.80
Industry Workers	32,019	50	1,601	1,280.76
Customers	336,262	5	1,681	1,345.05
Pilgrims at Kelani Viharaya	20,000	5	100	80.00
Total		•		
				22,041.77
			27,552	

Table 6.12 Daily Wastewater Generation - Kelaniya PS Area (2017 and 2030)

Source: Planning Team – Gampaha District Office, 2021

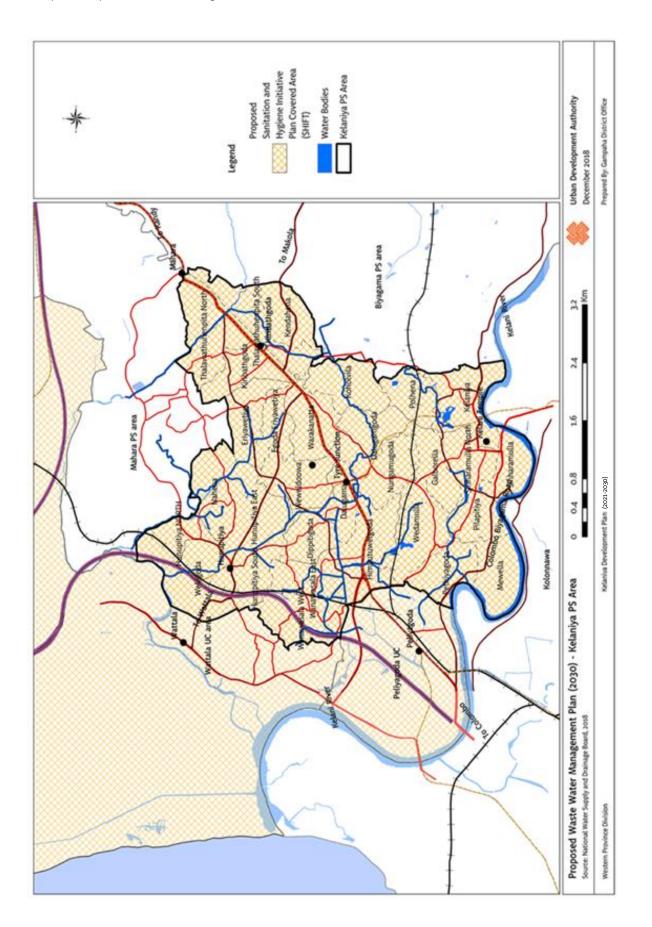
Presently, there is no proper disposal system for wastewater in the Kelaniya PS area. Under this scenario, considering the new development trends in the area, 141,000 of residential population and 532,000 of commuter population which proposed in the year 2030 will be generate 22,045 m3 of wastewater per day. The below table 6.12 has summarized the estimated amount of sewage generation in the year 2017 and 2030.

Peliyagoda Urban Council owned gully bourses are to be used in Kelaniya PS since there no proper drainage disposal system is functioning there. Thus, the problem of drainage disposal has been resolved by this method. The proposed project called

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Sanitation and Hygiene Initiative for Towns (SHIFT) proposed by the National Water Supply and Drainage Board (NWSDB), provides a solution for the problem of disposal of wastewater. This is a major contributor to the proposed industrial area in Peliyagoda, Kelaniya and also a technological solution can be obtained for the inefficiency of the waste disposal systems in the low altitude of the area. This project aims at collecting sewage, preventing water pollution, creating a healthier environment, improving the economic status and creating a safe environment. It has been proposed to construct 12.5 Km drainage line system, construct 7 drainage pumping stations, daily waste disposal facilities, 12000 m3 waste treatment plant, office buildings, construction of official residences and household connections during the period of 2016 - 2019. The covered area by the above mention project is shown in map 6.10.

In addition, there is a need to place an appropriate sewage system for the proposed High-Density Commercial Zone in Kiribathgoda, High Density Residential Zone and High-Density Higher Education Zone to facilitate both proposed residential and commuter population.



6.3.6 Solid Waste Management Plan

Solid waste disposal could be identified as one of the major components of Infrastructure Development. According to the existing residential and commuter population in the year 2017, the daily generation of solid waste is 133.36 tons. It is shown in table 6.13.

Zone	Residential Population	Daily Commuters	Residential Population + Daily Commuters	Daily Solid Waste Generation per person (0.4kg/d/person)	Daily Total Solid Waste Generation (Ton)
Low Density Sacred Heritage	10708	17500	28208	0.4	11.28
Conservation Zone					
Low Density Residential Zone	10565	5126	15691	0.4	6.28
Moderate density Residential Zone	20528	15387	35915	0.4	14.37
High Density Commercial Zone	11838	67859	79697	0.4	31.88
High Density Higher Education Zone	12627	66152	78779	0.4	31.51
High Density Industrial & Logistic Zone	30174	46778	76952	0.4	30.78
High Density Residential Zone	14730	3019	17749	0.4	7.10
Special Eco- Conservation Zone	0	418	418	0.4	0.17
Daily Total Solid Waste Generation Q	uantity				133.6

Table 6.13 Daily Generated Waste Collection in Kelaniya PS Area - 2017

Source: Planning Team – Gampaha District Office, 2021

As mention by the Kelaniya PS, around 75 – 80 tons out of daily generated of wastes have being collected per day by the Kelaniya PS. Out of which 60% are degradable and 40% are non-degradable. Three days in a week are set a part for collection of degradable and two days are for in the collection of non-degradable wastes. In addition, the garbage collection from the Kelaniya University will be added by calling for tenders. The PS has 14 tractors, 03 compactors, 06 carts and a tractor. Apart from that as the manpower of waste management, Public Health Inspector, two health administrators, two work supervisors, 18 drivers, 88 workers are available at the PS. In addition, 21 unskilled servants with 9 persons are used for the purpose of Compost Fertilizer Project which continued in the Manelgama waste dumping site. The estimated solid waste generation in the year 2030 is about 269.36 tons per day according to the proposed residential and commuter population. It has shown in table 6.14.

Table 6.14 Forecasted Daily Solid Waste Generation in Kelaniya PS Area-

Zone	Residential Population	Daily Commuters	Residential Population + Daily Commuters	Daily Solid Waste Generation per person (o.4kg/d/person)	Daily Total Solid Waste Generation (Ton)
Low Density Sacred Heritage	11353	22962	34315	0.4	13.73
Conservation Zone					
Low Density Residential Zone	12635	6361	18996	0.4	7.60
Moderate Density Residential Zone	26229	26718	52947	0.4	21.18
High Density Commercial Zone	15778	221126	236904	0.4	94.76
High Density Higher Education Zone	15170	148304	163474	0.4	65.39
High Density Industrial & Logistic	40218	91837	132055	0.4	52.82
Zone					
High Density Residential Zone	19633	14346	33979	0.4	13.59
Special Eco-Conservation Zone	0	739	739	0.4	0.30
Daily Total Solid Waste Generation Qu	269.36				

Source: Planning Team – Gampaha District office, 2021

Manelgama waste Dumping Site is being presently used for the disposal of all 75-80 tons of solid wastes per day. However, this dumping site already filled fully and no more could be added and hence Kerawalapitiya Dumping Site has been selected wastes is presently being directed to it; but the cost involved for it seemed more costly and now this practice is too currently discontinued. Thus, disposal of solid waste is a problem to the area. In addition, it has continued the production of Compos t Fertilizer under the 'Pilisaru Project' which launched by the Government and it contribute to produce around 15 tons of compost fertilizer per month at Manelgama Dumping Site.

When consider this existing situation there is a requirement for proposer solid waste disposal system to dispose daily generated solid waste by the projected residents and commuter population. Accordingly, 269.36 tons of daily generated solid waste can be categorized based on the standard percentages of the different composition of solid waste in PS area as shown in table 6.15.

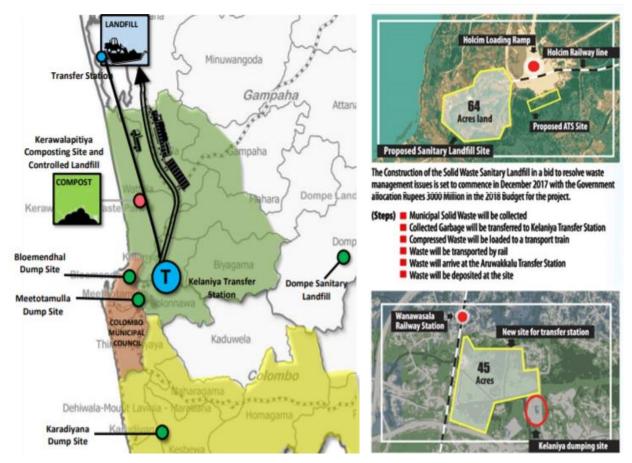
Category	Amount %	Amount 2017 (Ton)	Amount 2030 (Ton)
Solid Waste (short term)	39.53	52.72	106.48
Solid Waste (long term)	11.06	14.75	39.73
Polythene & Plastics	7.37	9.83	19.85
Waste in relation to Apparel Industries	6.45	8.60	17.37
Waste from Meat & Fish Stalls	4.77	6.36	12.85
Waste from Construction Industries	6.88	9.18	18.53
Paper	6.44	8.59	17.35
Glass	3.41	4.55	9.19
Wood	8.00	10.67	21.55
Iron	3.56	4.75	9.59
Other	2.53	3.37	6.81
Total	100	133.36	269.36

Table 6.15 Composition of Waste Generated Per Day in Kelaniya PS Area (2017 and 2019)

Source: Planning Team – Gampaha District office, 2021

Accordingly, under the proposed solid waste management plan for 2030, It is proposed to reconstruct the existing Compost Fertilizer Yards as a new Compost fertilizer plant with modern facilities using 106 tons of expected short term disposal solid waste in the year 2030.

In addition, it suggested that daily generating non degradable solid waste could be disposed to the Aruwakkaru Sanitary Land Filling Site. Further, 45 acres of land in Wanawasala Mudun Ela area has identified for accommodating a waste transfer station. And it is proposed to transfer the non-degradable solid waste to the Aruwakkaru Sanitary Land Filling Site via Figure 6.13 Proposed Solid Waste Management Project



Source: Sri Lanka Emergency Solid waste Management Project Report - 2017 December

6.4 Economic Development Strategies

6.4.1 Proposed Economic Plan

According to the vision of the Kelaniya Development Plan for the year 2030 'Urban Locus of Divinity', it is expected to strengthen the regional and national economies through the development of the commercial & retail sector and local industrial sector combined with the Sacred area.

As per future vision to upgrade the existing urban locus toward an expected serene urban area, it is expected to establish the sense of the 'Kelaniya Sacred Area' while strengthen the local industrial sector in parallel with Sacred area. And the other things are creating an efficient and productive city while developing 5 transit-oriented development clusters which promote the public transportation and it is expected to uplift the regional economy through facilitating to developed Kiribathgoda City as an arcade type commercial investment belt which promote Middle End Retail and Shopping Street. All these strategies which described below, and their proposals are shown in map 6.11.

Present government manifesto discusses about the steps to be taken to uplift the tourism industry in the country, under the 'People-centered Economy' Policy statement. Foreigners are attracted to Sri Lanka by its natural beauty. In addition, they attract to our country because of the Theme parks, religious, cultural and national heritage sites, domestic Ayurveda treatment centers, etc. In that case manifesto given priority to provide investment and other facilities to improve the Tourism industry in Sri Lanka.

6.4.1.1 Promotion of Pilgrim Tourism Based Development

The intension is to encourage the local economy of the area based on the pilgrim tourism development in association with Kelaniya Sacred Area. Number of pilgrims arrive this sacred area daily, monthly and annually for the purpose of worshiping the Kelaniya Temple. An attention has been focused to promote traditional local clay domestic industry prevailed in Kelaniya area in keeping with in achieving the vision of developing national economy in the year 2030.

This economic advancement intends to be implemented by encouraging traditional domestic clay industry which originated in the year 1925 at Gaborella local area associated in establishing or promoting related market stalls at adjacent areas of Kelaniya temple. It is proposed to open-up the outer sacred area for production and marketing of traditional goods specially in related to the Galboralla Ceramic Industry targeting the pilgrims who worshiped the Kelani Temple. The development of dedicated line for the Colombo – Biyagama road as Kelani Velley Crescent Road and the direct access road which connect the tyre junction and Kelani Temple will be provide the direct access toward the Ceramic Industry. At the present, the factory is in a dilapidated condition, accommodating around 35 families producing indigenous clay products and also provide training for 15 number of university students. Although there is a potential for marketing these traditional clay goods, only 3 or 4 t rade stalls sited at Galborella area are also in operation for selling these goods. Therefore, it is necessary to redevelop the existing Ceramic industry in Galboralla with the modern facilities while creating the employment opportunities for unemployed youths of 450 persons in Galborella, Sinharamulla, Sinharamulla North and Pilapitiya area and promoting the trade stalls for marketing these goods in the vicinity of the Kelaniya Sacred area which may strengthen economic enhancement.

Meanwhile, it is expected to strengthen the economy through the opening the network of archaeological sites and attracting places which is spread over the area for the pilgrims and visitors which will promote the economy of the community. Further, in relation to the Kelaniya Sacred area, Pilapitiya, Galborella near Traditional Ceramic Industries and Kelaniya - Koholwila areas will be develop as three commercial service nodes adjacent to the proposed Kelani Velley Crescent based the Kelaniya Sacred Area to provide services to the pilgrims who visit the sacred area daily.

6.4.1.2 Developing Middle End Retail and Shopping Street at Kiribathgoda

Kiribathgoda, is a major trading centre in the Gampaha District and also the main commercial city located in the Kelaniya are a. This is not only an important service centre in the areas of Kelaniya, Peliyagoda, Hunupitiya, Mahara and Biyagama but also it is an attracting commercial space which famous for retail and ready-made garments located along the corridor of the Colombo – Kandy Main Highway. Further, in 2016 it is identified as an up-coming commercial city in the western region, with this the area will be able to achieve maximum economic development by providing necessary facilities to improve the market opportunities.

As per the Road & Transportation Plan, the alternative road form Peliyagoda to Mahara has proposed as a result for heavy traffic congestion existed at the Colombo – Kandy Main road corridor. And it will be helped to promote the commercial investments through the development of shopping street with pedestrian facilities. By now, the city of Kiribathgoda, which has been spread over two kilometres in extent, does not have to expand further with the lowlands. Therefore, the vertical development is expected to encourage by promoting through the zoning regulation.

At this moment, 500 M either sides of Colombo – Kandy Road are consisted with 12% commercial activities of landuses. Out of which 40% is shops with textile & garment products. This potentiality stresses for developing arcade type commercial investment corridors.

Accordingly, either side of the main road starts from YMBA Junction to Hunupitiya Wattala road covering 800 m along the road with 2.5m width proposed for this shopping street development. This arrangement could be implemented through the cooperation with shop owners which may enhance the market attraction to the area concerned. Apart from main road, the road from Kiribathgoda to Makola town up to the distant of 500 M is also expected with arched road development. The conceptual view of this proposed arched type shopping street is shown below in figure 6.14.



Figure 6.14 Expected View of Proposed Shopping Street Development in Kiribathgoda

These exercises predict under-developed lands & buildings into utmost usage and occupy commercial activities efficiently and enhance opportunities for commercial development. And also, it is expected to attract more commuters by creating recreational and amusement opportunities for the daily commuters while properly managing low-lying lands attracting migrants. Further, Kiribathgoda will be developed as a main commercial centre while incorporating the potential of proposed Light Railway line from Ragama – Narahenpita and its railway station at Kiribathgoda. Thus, Kiribathgoda will become as a transit-oriented service node (TOD) with mixed development accomplishments.

6.4.1.3 Developing the Small Transit-Oriented Neighbourhood Centre (TOD) based on Public Transportation

Specially, Small Transit-Oriented Neighbourhood Centre (TOD) can be known as a mixed use and compacted town centre which facilitating for commercial, industries, office spaces and residential uses with the better public transportation linkages. The various transport media can easily reach jobs, shopping, workplaces and homes, and help neighbouring areas within a short period of time with this transit-based development.

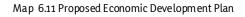
Accordingly, it is intended to enhance the opportunity to establish markets and offices along with the development of proposed Light Railway from Ragama – Narahenpita, Hunupitiya-Kottawa main modernized new railway line from Biyagama to Kosgama allowing an opportunity for investment. Thus, investment opportunities will be improved for establishment of small townships enabling commercial and mixed development usages with the proposed centring of Railway Station and

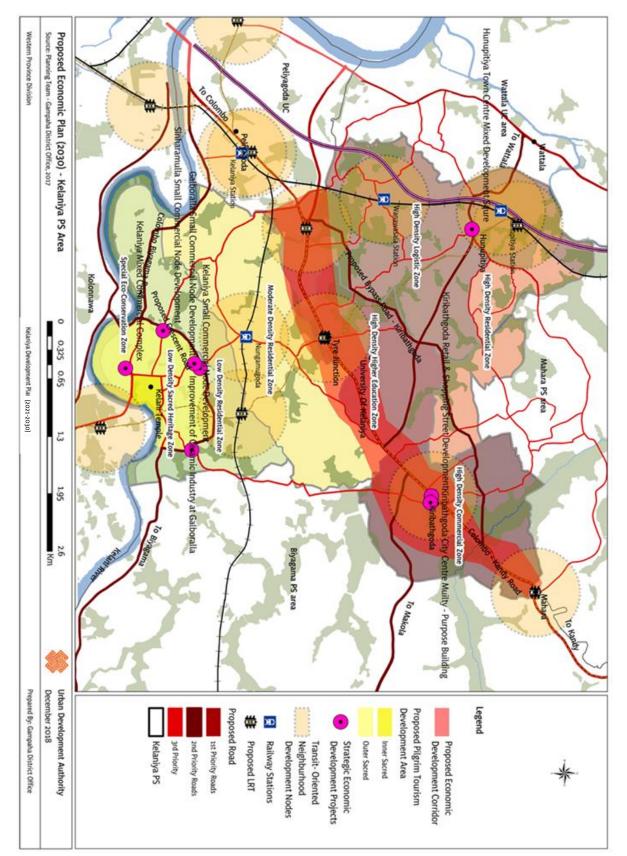
Source: Planning Team – Gampaha District,2021

Proposed Light Railway Station connecting Wanawasala, Hunupitiya, Tire Junction, Nungamugoda and Polhena in addition to Kiribathgoda as shown in map 6.11.

Hunupitiya is proposed to develop as a sub urban centre based on the lengthy analysis of the Development Press Index, Sensitivity Index, Development Potential Index and Land Suitability Index. In this process, while incorporating the potential of spreading the development pressure towards Hunupitiya area which concentrated on Kiribathgoda, Wattala – Hunupitiya Road will be proposed to develop with four lanes intend to enhance the opportunity of developing market economic stabilization. Further, it is proposed to promote Hunupitiya and Wanawasala areas as Logistic and Industrial promotional areas avoiding expansion of haphazard industrial enlargement in low lying lands and Dippitigoda Road and Wanawasala – Wattala road will be widened to provide facilities for expanding industries and warehouses.

Kelaniya Tire Junction has identified as a proposed LRT Station and it will further be developed as a transport based urban service node, it would be helped to develop the Tire junction as a transit centre which prominent for the commercial activities while encouraging mixed development in related with the University of Kelaniya. Further Wewalduwa road which connected with Tire junction from the northern part and Tire corporation road which connected from the southern part will be widened and it helps to increase the intensity of development in this area. Thus, increasing investment opportunities may leads to improve the trade economy of the area. Furthermore, proposed Railway and LRT Stations at Nungamugoda, Polhena will be developed as small service nodes based on the transportation with the possibility of linking the Kelaniya Sacred area also.





6.5 Sustainable Environmental Development Strategies

The plan has proposed sustainable environment management strategies with purpose of mitigating flood affect and reducing urban heat through properly managing 15% of existing wetland area and water canal system as a part of achieving the vision for 2030 by creating an urban green city with smoothen canal network.

Under this, Proposed Environment Conservation Plan, Disaster Risk Reduction Plan, Landscape Management Plan and Public Outdoor Recreation Space Management Plan have been presented by incorporating 300 Hec. of wetland areas to mitigate flood and incorporating 140 Hec. of wetlands conservation areas opening only for their permissible uses. Apart from that, it is expected to manage 100% of continuous canal network by the year 2030 and to proceed towards a green city while collaborating with Kelaniya green university prescient by 2030 through this sustainable environment development strategies.

Part VIII of the current Government Policy emphasized on Sustainable Environmental Policy. It has created urban and semiurban parks, developed tree lines on both sides of expressways. It aims to reduce the release of carbon and toxic gases into the atmosphere. Further, steps have been taken to establishing settlements in minimum environmental impact areas and no large-scale developments will be allowed in identified environmentally sensitive areas. Accordingly, steps have been taken to formulate plans in the Kelaniya Development Plan taking into account the new approach of sustainable concept and green approach through the National Manifesto.

6.5.1 Environment Conservation Plan

As per survey carried out by the Survey Department in the year 2000 at Kelaniya area, that 28 % from total land was wetlands. But it reduced up to 15% in the year 2017. Since it is located close to the Colombo port and surrounded by Biyagama and Peliyagoda industrial areas, demand for the expansion of industries, warehouses and also the residential rising expands into low-lying wetland areas. According to these considerable facts we have classified all wetlands in Kelaniya PS area into below wetland classification.

i. Wetland Nature Conservation Zone

This zone includes wetlands with high biodiversity and areas that need to be classified as wetland and water retention and drainage areas for flood risk reduction and control.

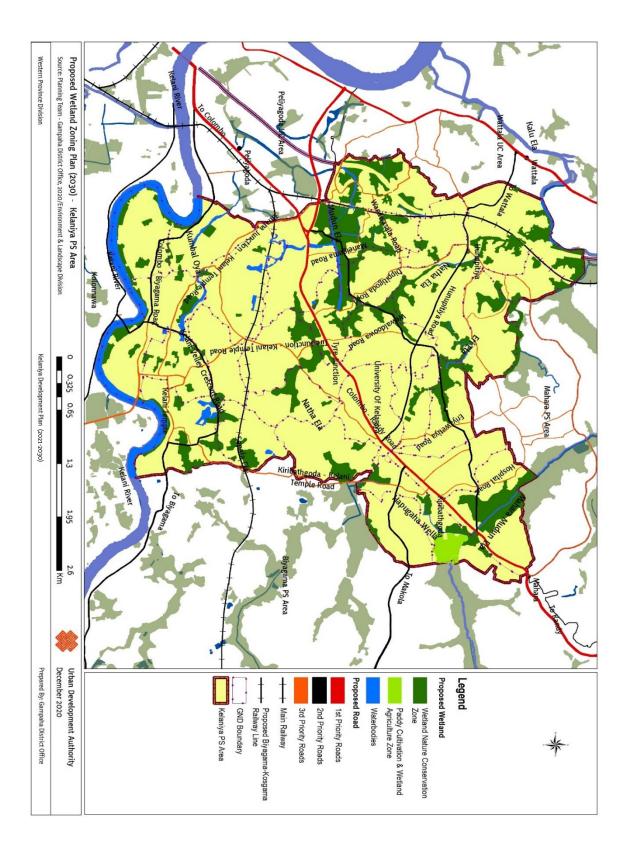
ii. Paddy Cultivation & Wetland Agriculture Zone

Existing paddy cultivations, vacant paddy lands and Deniya / Ovita / etc. belong to this zone.

Significant amount of abandoned paddy lands is located in the Kelaniya PS area and those low-lying areas should be conserved considering the possibility of water retention and drainage and flood risk mitigation.

Kelaniya Development Plan (2021 -2030) Urban Development Authority

Map 6.12 Proposed Wetland Conservation Plan



6.5.2 Landscape Management Plan

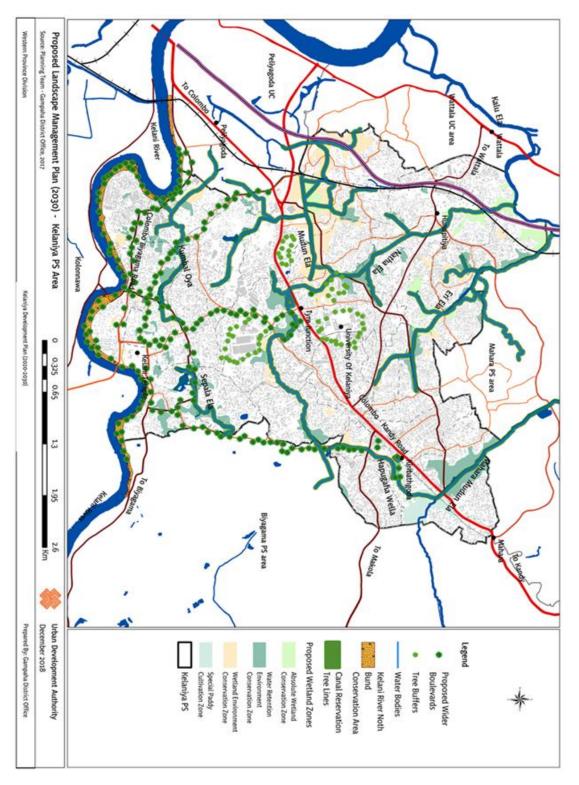
One of the factors that induce in preparing a development plan is the fact that the high dense urbanization is already in existence thereby many problems like intensifying urban heat and air pollution has been created. Hence the main target would be a landscape plan in achieving a well facilitated township integrating with blue-greenery environment. This Landscape Plan has been originated through two key strategies.

6.5.2.1 Establishing Wider Boulevards for internal road network

It is proposed to establish the selected road with Wider Boulevards as directly link the Kelaniya Sacred Area from Colombo – Kandy Road. The required space for establishing these green paths has allowed through the proposed road width by providing the space for service lane and landscaping also under the Road & Transportation Plan. Further, all internal roads and pathways in the green University area are to be developed with greenery.

6.5.2.2Expansion of green paths for canal & river reservations and industrial buffer





Map 6.13 Proposed Landscape Management Plan

The environmental equilibrium of this area has already damaged due to expansion of haphazard industrial improvements. To overcome this situation, it is proposed to maintain a 10m buffer zone with a green belt around each industry. Kelani River North bank area which included to the proposed Eco- Conservation Zone under the proposed Zoning Plan is expected to develop as green area. Further the green line should be maintained for each canal reservation based on the width of the reservation of these canals as mention in the gazette no 1662/17 dated 14.07.2010 of Sri Lanka Land Reclamation & Development Corporation. As per the recommended reservation based on the canal width is shown in table 6.17 and it has applied for each canal in Kelaniya PS. It is expected to improve the visual quality of the area while protecting environmental equilibrium through this planning intervention. The proposed landscape Management Plan with these proposals is shown in map 6.17.

Table 6.16 Canal Reservation - Sri Lanka Land Development Corporation

Canal Name	Width of Canal (m)	Width of Canal Reservation (m)	
		Open Canal	Closed Surface Canal
Hapugahawella, Mahara Mudun Ela	6.1-9.0	4.5	1.5
Eri Ela, Natha Ela, Mudun Ela, Kumbul Oya, Kalu Ela	More than 9.0	6.5	2.0

Source: SLDC (Amendment) Act 2006 No 35/ Planning Team – Gamapaha District Office, 2021

6.5.3 Disaster Risk Reduction Plan

The most distressing natural disasters in the Kelaniya PS is flooded during the rainy season. Though there are canals available in the area to flow the surplus water, they are mostly impassable and not timely repaired there by canals are blocked due to unauthorized land filling. The difference between the existing water flow and the natural flow accumulation is revealed that this obstructed canal network which may cause for flood inundation as shown in Annexure 33. Hunupitiya North, Hunupitiya South, Hunupitiya East, Welegoda, Nahena, Wanawasala, Himbutuwelgoda, Wewalduwa, Dalugamgoda, Warakanatta, Dippitigoda, Pethiyagoda, and Sinharamulla are usually affecting for floods.

In order to minimize damages occurred annually due to the floods, a development plan has been prepared an existing Canal Improvement Plan and a Flood Zoning Plan.

6.5.3.1. Existing Canal Improvement

As per Annexure 33, the canal network which identified through the GIS analysis is proposed to be developed. Accordingly, the canals proposed for restoration has shown in table 6.18 with the obstructed lengths.

Table 6.17 Proposed Reconstruction of Canals

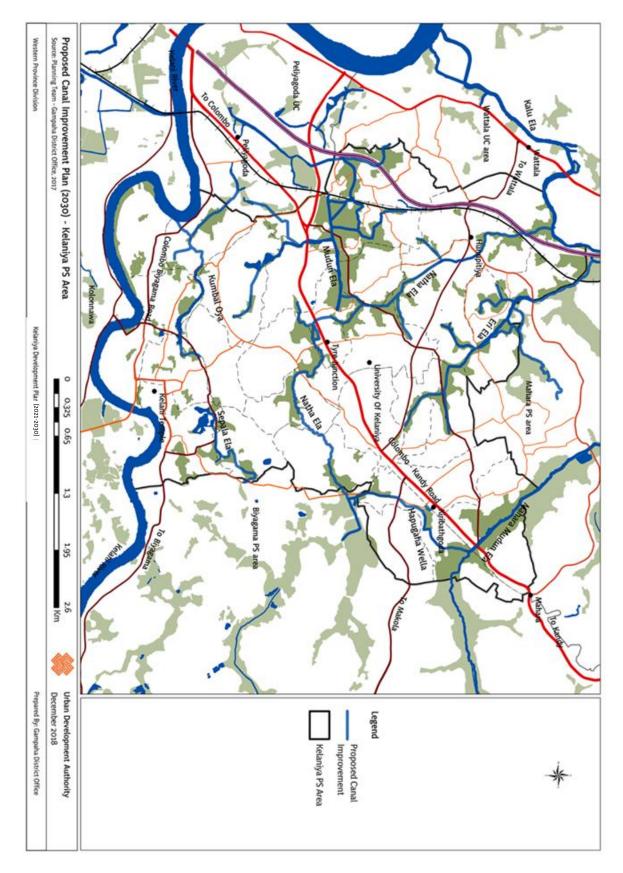
Canal Path	Length (km)
Restoration of Natha Ela (from Gonawala to Kalu Ela)	3
Restoration of Eri Ela (from Eriyawetiya to Kalu Ela)	3.4
Restoration of Hapugahawella (from Kiribathgoda to Mahara Mudun Ela)	7.3
Restoration of Mudun Ela	800 m
Restoration of Kumbul Oya	6

Source: Planning Team – Gamapaha District Office, 2021

In addition to canal development strategy, the unauthorised slums and shanties in Kelani River North bank which usually affected for flood will be relocated with the Proposed Climate Resilient Improvement Project (CRIP) introduced by the Irrigation Department. Therefore, incorporating this plan, it is proposed to relocate 1200 of shanty houses in Kelani Riverbank.

Additionally, proposed water pumping station installed at Pethiyagoda initiated by the Department of Irrigation intense minimized flood treats in 33 Hec. of land. Further it would protect the assets of valued to Rs. 5 million annually. Thus, it is proposed to improve the existing canal system as a proper water retention area which help to minimize the flood as shown in map 6.14.

Map 6.14 Proposed Canal Improvement Plan



6.5.3.2. Flood Zoning Plan

According to the flood situation in Kelaniya PS area could be classified mainly 2 zones. (Map No: 6.15 shows Proposed Disaster Risk Reduction Zoning Map for Kelaniya PS Area)

- I. Green Belt Zone
- II. Flood detention & retention zone
- I. Green Belt Zone

Kelani Ganga river reservation (60m) should be kept as Green belt to fulfill flood retention-detention capacity and facilitate public open space recreational facilities.

II. Flood detention & retention zone

All Marshes, Paddy fields and low-lying areas should be kept as flood detention and retention zone for mitigate flood hazards.

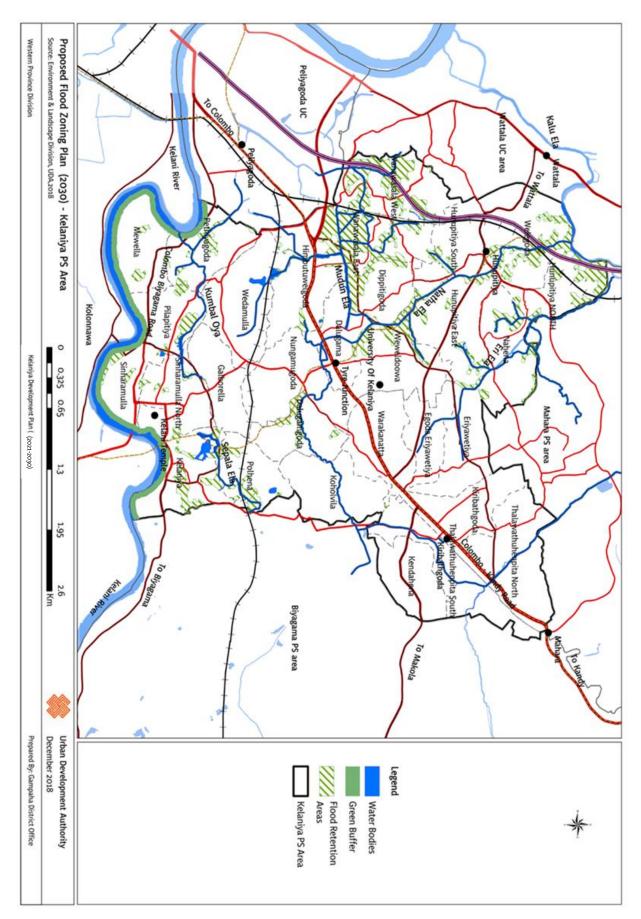
6.5.3.3 Strategies for Flood mitigation

- I. Develop low density residential areas.
- II. Construction of flood barriers
 - (a) Rehabilitation of water gates on existing dams and canals
 - (b) Construction of new water gates identified by identified canals and preventing damage to property on both sides of the property by means of channels through the canals of the river.
 - (c) Construction of pumping stations to pump water into the river to allow for the addition of water collected in roads to the river where water is added to the water due to the construction of flood barriers.
- I. Critical areas for approved uses suitable for floods.
- II. The construction of flood detention reservoirs.
- III. Reforestation of catchment
- IV. Increase water retention characteristics to reduce flood risk.

To improve river, channel River, Cannels can be deepened, widened or cleared of obstruction to improve it conveyance capacity prevent flooding.

V. Prohibited of filling of paddy lands

Map 6.15 Proposed Flood Zoning Plan



6.5.3.4. Floods Prevention Methods

- 1. Heavy construction should be minimized in low-lying areas (this area can be promoted for low density settlement) while maintaining a proper water flowing network.
- 2. Constructing Flood Walls
 - a. Reconstruction of existing anicuts and flood gates.
 - b. Construction of new flood gated for identified canals to reduce the surplus water in rainy season.
 - c. Construction of pumping station to maintain surplus water in the rainy season. For that it has incorporate the proposed Pethiyagoda pumping station to minimize the flood damage.
- 3. Allow for the permissible uses in flood inundation areas
- 4. Construction of water retention areas
- 5. Forest restoration in catchment areas

6.5.4 Public Outdoor Recreational Space Plan (PORS)

According to the accepted standards of Urban Development Authority, open spaces have to be provided at the rate of 0.8 hectares per 1000 persons. It has estimated that the population by the year 2017 is 111,000. According to the data analysis of the development plan it has forecasted that the population would be 141,000 by the year 2030. According to that it should be reserved 113 hectares as Public Outdoor Recreation in 2030.

Details of the Existing Public Parks & Playgrounds in Kelaniya Pradeshiya Sabha Area

There are 10 ha of Parks & Playgrounds of the whole Kelaniya Pradeshiya Sabha Area. They have been categorized in table 01 & Annexure 02 accordance with UDA Public Outdoor Recreational Space concepts as follows,

No	Type of Parks	Extent (ha)
1.	Pocket Parks (EPP)	0.52
2.	Mini Parks (EMP)	4.34
3.	Local Parks (ELP)	4.27
4.	Linear Park (ELiP)	0.56
	Total	9.69

Table 6.18 - Existing PORS – 2018 (Kelaniya PS Area)

Source: Environmental and Landscaping Division

According to the information given in Table No. 01, there are approximately 10 hectares of open land in the Kelaniya Pradeshiya Sabha area at present. 89 hectares should be set aside as direct and indirect recreational facilities for 111,000 of the current population. However, according to Table 01, there are not enough public open spaces in the Kelaniya Pradeshiya Sabha area for the present population and the existing locations are also inadequate.

Table 02 shows the places where passive recreational facilities can be provided in the Kelaniya Pradeshiya Sabha area.

Table 6.19 - Public Library in the Kelaniya PS area.

i. Public Library

Name of the Library	Number of books	Numbers of members
1. Kiribathgoda Public library	17,710	2,959
2. Kelaniya Public library	14,393	2,959
3. Mewella Public library	5,736	653
4. Dippitigoda Public library	3537	99
5. Hunupitiya Public library	6897	909
6. Nahena Public library	2439	355
7. Polhena Public library	3014	434
8. Wewalduwa Public library	1711	209
9. Wanawasala Public library	4748	877
10. Himbutuwelgoda Public library	1495	114
11. Dalugamgoda Public library	755	60

Source - Program Budget, Kelaniya Pradeshiya Sabha - 2017

- ii. Cinema hall 01
- iii. Community hall 07

Forecasting population for year 2030 is 141,00 and PORS land requirement for the total population for the Kelaniya Pradeshiya Sabha Area for year 2030 is approximately 113 ha (Table 03 & Annex 03) (Public Outdoor Recreation Space Plan indicated in Map No:03).

Table 6.20 - Proposed Public Outdoor Recreation Space Plan for in Kelaniya PS Area 2018 – 2030

No	Type of Parks	Extent (ha)
1.	Proposed Pocket Parks	0.66
2.	Proposed Mini Parks	10.64
3.	Proposed Local Parks	4.02
4.	Proposed Linear Parks	87.81
5.	Total	103.13
6.	Existing PORS	9.69
	Grand Total	112.87

Source: Environmental and Landscaping Division

Strategies

I. Redevelop Existing Parks & Playground

Existing Parks & Playgrounds should be redeveloped according to the proper Landscape Plan under guidance with qualified persons.

II. Develop Linear Parks Concept

Ela reservation, Ganga and Oya reservation, should be developed as Linear parks as much as possible and it helps to mitigate urban flood hazard in the area and increase recreation facilities distribution among the population and minimize the encroachments along the reservations.

3. Strategy in reducing urban heat - 2030

3.1. Make greenery of all government and semi-government buildings according to the Sri Lanka National Building Greenery system

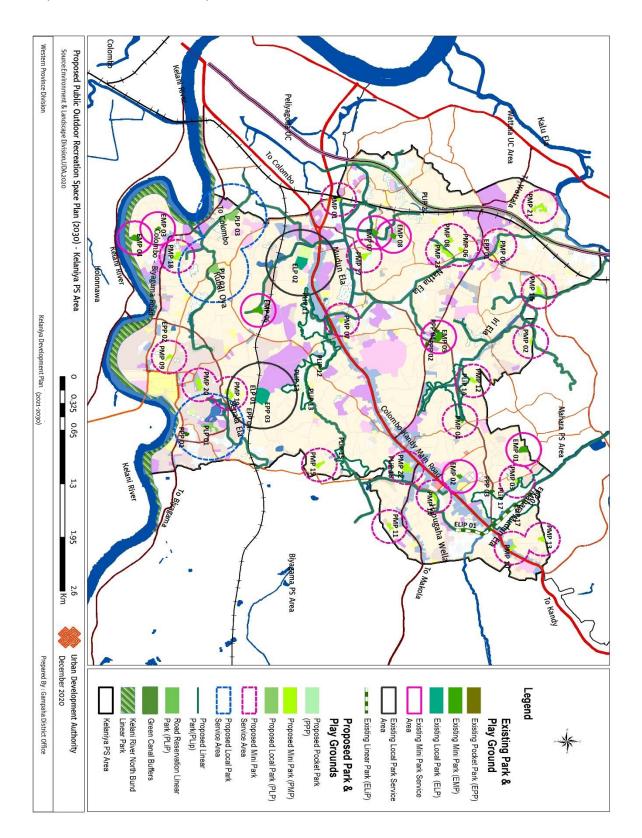
3.2. Convert all building roof tops into greenery and encourage to use water sprinklers.

3.3. Make awareness about in colouring buildings

3.4. Introduce greenery concept for all proposed vehicle parks and conversion of all existing vehicle parks as greenery parks

3.5. Ground layering method should be encouraged to absorb water into the earth and aware about the colouring.

3.6. Maintain the current playgrounds, parks & open lands and implementing the proposed open lands grounded on greenery concept.



6.6 Culture & Heritage Management Strategies

Kelaniya is an area which having its own inheritance & traditional line. The present landuse of the sacred area is completely incompatible uses which being changed or in existence due to fast development potentiality. As a result, the idea of confidentiality is disappearing in the adjacent premises and its historical surrounding environment is limited to the Kelaniya Temple though this place consists with the surrounding water sources which suitable for the Sense of Sacred Area. Kelaniya was gazetted as sacred premises in the year 1952 and 18 of archaeological sites have been identified around this area. Accordingly, it is proposed to properly manage the Sacred area as enhance its Sense.

It is important to establishing the Sense of Kelaniya Sacred area while blending it with the image of the Kelani river as a main objective of achieving the future vision for the year 2030. And to position the Kelaniya Raja Maha Viharaya as a centre point while connecting direct access toward the sacred area, to demarcate the 105 Hec. of land for outer sacred area covering 500m radius around the Kelani temple premises by 2025, to open-up 1 km length of Kelani river face as visual beautification of the sacred city by 2025, and to establish visual network of historical & archaeological sites in the Kelaniya area by the year 2030 area the expected objectives which covered through this proposed Sacred Area Development Plan.

According to the ninth part of the ten key polices of current Government Manifesto discusses, how to protect and preserve the country's historical heritage and bequeath it to future generations. To this end, the existing legal framework has been further revised to enhance the process of preserving the heritage. It is also planned to provide the basic facilities required for tourists visiting this heritage site without compromising its archaeological value.

6.6.1 Sacred Area Development Plan

Sacred Area Development plan is developed on the two key strategies.

6.6.1.1. Kelaniya Placidity Precinct Strategy

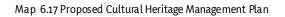
The area around the existing Kelaniya temple around 500m radius of area has identified to promote as Outer Sacred Area to overcome the expansion of incompatible landuse around the Sacred Area because of the sense of 'Kelaniya Sacred Area' has limited only to the existing temple premise at the present context. Accordingly, the Outer Sacred Area which covered an extent of 150 Hec. of lands have been identified as Low Density Sacred & Heritage Conservation Zone under the proposed Zoning Plan. It is proposed to enhance the historical inheritance of the Kelaniya Sacred Area through the proposed zoning regulation specifically for the Sacred & Heritage Conservation Zone. According to the proposed density zoning in the Zoning Plan, the density will be increased toward the north part of the area from the Kelaniya Outer Sacred area.

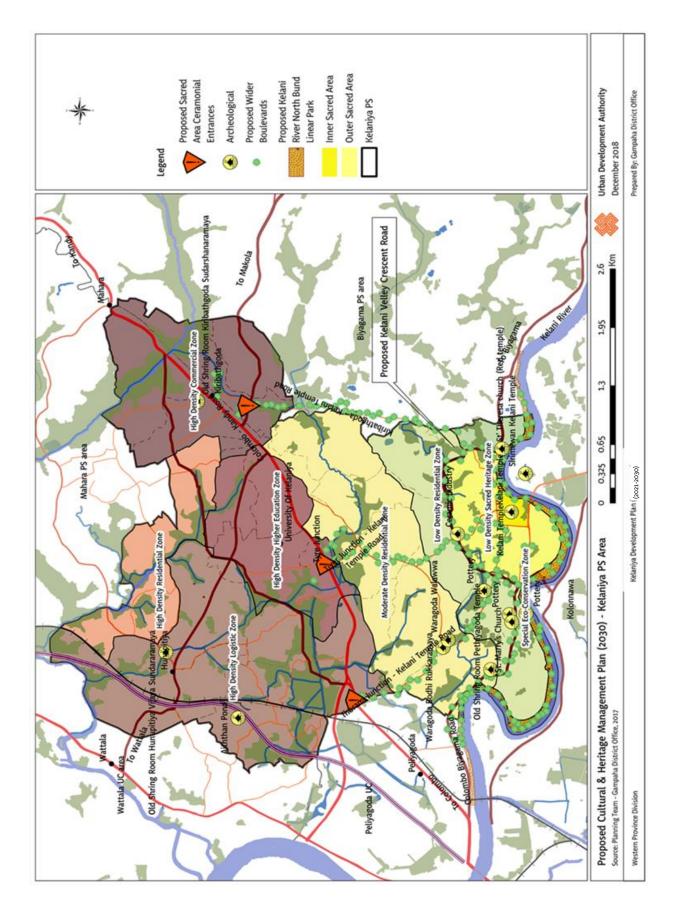
As per indication made in the Roads & Transportation Plan and the Landscape Management Plan, Three Wider Boulevards have proposed as direct access way for the sacred area from Thorana Junction to Kelani temple, Tire Junction to Kelani temple, and Kiribathgoda to Kelaniya Temple. Further, the Sacred Area Plan has proposed to develop three Ceremonial Entrance in place which start the three Wider Boulevard. Accordingly, the existing ceremonial entrance at Thorana Junction should further redeveloped and two of other new ceremonial entrance should construct at Tire Junction and Kiribathgoda. The proposed Kelani Velley Crescent Road under the Transportation plan as a dedicated line for Colombo- Biyagama Road nearby Kelani Temple which proposed to overcome the inconvenience due to the traffic congestion and noise near the Kelani Temple has laid through Pilapitiya, Galboralla and Koholvila as a demarcated boundary for the proposed Outer Sacred Area covering 500 m of radius around the Kelani Temple.

The proposed special Zoning Regulation will help to control the uneven construction and incompatible landuses of this area because of it has regularized the compatible colours for the building and building construction Guidelines.

Promoting traditional Ceramic Industry while blending the sacred area and developing the network of archaeological sites as a Religious and Cultural Trail targeting pilgrims and visitors may help to increased historical 'Sense of the Kelaniya Sacred Area' while enhancing the local economy. Because as mention by the Department of Archaeology, there are 18 number of archaeological which identified within the Kelaniya PS area. By considering this as a potential it should be further improved declined monuments and should combined with the Network of Archaeological sites to open for visitors.

Thus, the proposed Kelaniya Placidity Precinct and Religious & Cultural Trail with its proposals are shown in map 6.16.



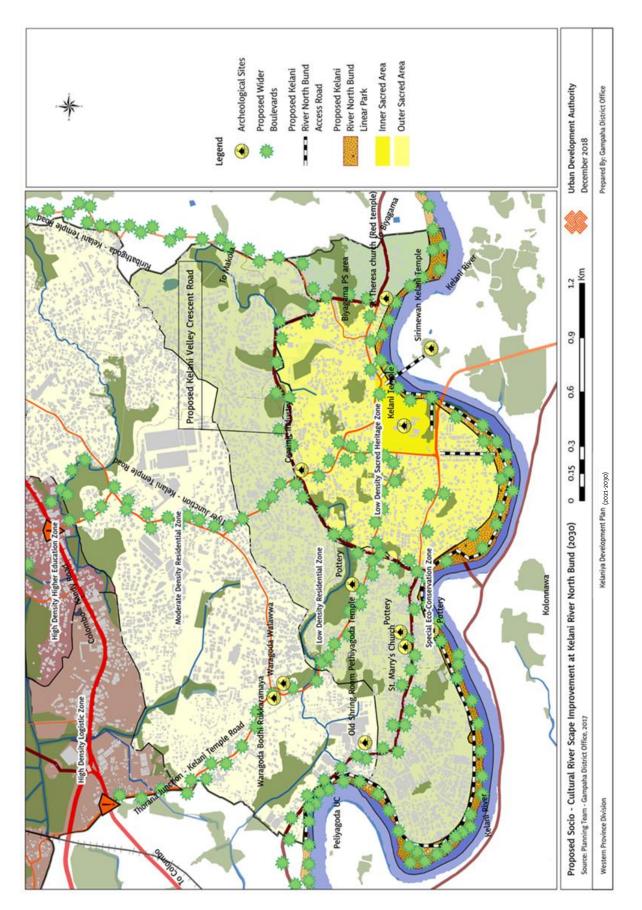


6.6.1.2Socio – Cultural River Scape Improvement Strategy

As identified with the Need of the Development Plan, most of the Sacred Areas have established specially based on the Water Source in Sri Lanka and other countries. Kelaniya Temple also can be identified as a Sacred area which developed based on Kelani River water source. But because of its location proximity to the Colombo CBD, lot of unauthorized constructions have distributed all over the riverbank area with the increasing population. At the present Kelani riverbank which belongs to Kelaniya PS Area is consisted with 1500 of slums and shanty houses. Therefore, the combination between Kelani river the Kelaniya Sacred Area has decreased with this high intensity developments. Accordingly, to achieve the vision for the year of 2030, it is proposed to open-up 1 km length of Kelani river face as visual beautification of the sacred city by 2025 to enhance Sacred Sense of Kelaniya Sacred Area.

The Climate Resilient and Improvement project correspondingly carried out by the Irrigation Department along with the project of resettling shanties & slums located in the riverbank may allow pilgrims & tourists to feel the sacred Sense and enjoy the area surrounding. For that, it is proposed to develop the Kelani Riverbank as a Linear Park with the compatible landscaping for the sacred Area and it link with the proposed Religious -Cultural Trail by providing access paths towards the Kelani Riverbank from the Sacred Area.

At the same time the, the Kelaniya Sacred Area Development Plan which prepared by NPPD also incorporated to this plan. Accordingly, it has proposed to link the Egoda Kelaniya and Megoda Kelani through the hanging bridge and provide the boat facilities. Apart from that, boat jetty, pilgrims resting areas etc. This Sacred area Plan prepared by The National Physical Plan is shown in annexure 27. And the above proposals are shown in map 6.18. Map 6.18 Socio – Cultural River Scape Improvement Plan



6.7 Implementation Strategies

6.7.1 Strategic Projects and Other Projects

The vision of Kelaniya Development Plan 2018 – 2030 intended the achieving 'Urban Locus of Divinity' heavenly urban stability present image of Kelaniya sacred place integrating with the Kelaniya River will be established with its holiness. It will enable an efficient & fruitful town with Transit-Oriented targets aiming greenery & comfortable township. Accordingly, proposed new strategic projects and other projects are all compatible with the conceptual plan & objectives where feasibility of socio environmental matters area fixed as per priority basis & essentially implementable. This project prioritization has mention in annexure 43.

1st Priority Projects

- Kiribathgoda Multi-Story Car Park with Over Head Pedestrian Corridor
- Multi functional commercial centre at Kiribathgoda (Kiribathgoda City Centre)
- Recreational Park Development at Kiribathgoda town centre
- Proposed New bypass road for Kiribathgoda linking Peliyagoda-Mahara
- Transport Centre Development Project at Hunupitiya Town Centre
- Modernization of Hunupitiya Railway Station
- Widening the Station Road
- Linear park development at Kelani river north bud and improve the access ways
- Proposed Canal Improvement
- Natha Ela reconstruction
- Hapugahawella reconstruction
- Eri Ela reconstruction
- Mudun Ela reconstruction
- Kumbal Oya reconstruction
- Development of fly over pedestrian corridors at YMBA Junction and Eriyawetiya junction
- Sacred area access roads improvement projects
- Torana Junction KelaniyaaViharaya
- Tire Junction Kelaniya Viharaya
- Kiribathgoda Kelaniya Viharaya
- Improvement of Green parts toward the sacred area
- Establishment of new Kelani Valley Crescent Road
- Establishment of information centre and New Pilgrims Resting Area-Kelaniya

2nd Priority Projects

- Retail & Shopping Streets Development at Kiribathgoda
- Jogging track at Tyre Junction
- Play grounds, jogging tracks and housing scheme at Kelaniya
- Ayurwedic hospital and "Danashalawa" at Kelaniya
- Improvement of Kiribathgoda Walk Trail

- New bycycle track (From Kiribathgoda Walk Trail to Suwatha Uyana)
- Hunupitiya Wattala Road Development Project
- Internal road Development projects
- Kiribathgoda hospital road widening up to 12 M
- Eriyawetiya road widening up to 12 M
- Wewakduwa road widening up to 12 M
- Dipitigoda road widening up to 12 M
- Wanawasala-Wattala road widening up to 12 M
- Middle income housing with commercial complex development at Hunupitiya
- Sarasavi Art Centre Development at Tire Junction
- New Public Market Development at Hunupitiya
- Development of waste recycling plant and Modernization existing compost plant at Manelgama
- Redevelopment of Galborella Ceramic industry
- Development of Mixed commercial complex at Kalaniya
- Green linear development project along canal reservations
- Development of Linear Park at Hunuptiya
- Development of wetland park with walking track at Koholvila
- Sacred Area Ceremonial Entrance development at Thorana Junction, Tire junction and Kiribathgoda
- Relocation of Kelaniya Police Station

3rd Priority Projects

- Reconstruction of Kelaniya Bus Stand (Nungamugoda TOD)
- Establishment of Polhengoda Nungamygoda TOD link road
- Establishment of New Open Pilgrims Resting Placeat Kelaniya Sacred area
- Establishment of Hunupitiya weekly Fare
- Establishment of New Engineering Faculty of Kelaniya University at Dasa Building site
- Establishment of mixed development square at Hunupiya Town centre
- Establishment of Kelaniya River Boat Jetty
- Establishment of hanging bridge linking viharas of Megoda Kelaniya and Egoda Kelaniya
- Reconstruction of new access bridge between Kelaniya and Hanwella low-level road
- Water Retention Area development with landscaping designs at Kelaniya
- Modernization of Kiribathgoda bus stand with Upper- floor urban park
- Development of walking track linking Hunupitiya Wattala via Kalu Ela canal bank
- Electrification of Main Railway Line (Kelaniya, Wanawasala and Hunupitiya station)
- Establishment of Light Railway of Ragama–Narahenpita (Kiribathgoda, Tire Junction and Manelgama Railway stations)
- Establishment of Hunupitiya Kottawa Light Railway line (Hunupitiya, Tire Junction and Polhena Railway stations)
- Development of Manelgama Wanawasala waste transfer station and Aruwakkalu Sanitary Land Filling Station
- Establishment of Biyagama Kosgama new Railway line (Nungamugoda station)
- Relocation of Unauthorized construction in Kelani river bank under the Climate Resilience Improvement Project
- Modernization of Kiribathgoda Hospital
- Redevelopment of Kelaniya Snake Poison's Hospital
- Pattiwila Kelaniya River South bank water treatment plant Stage II

- Peliyagoda Kelaniya wastewater Management Project
- Establishment of Mabima Water treatment plant
- Establishment of Pethiyagoda pumping station

Other Projects

- Pubic Open area Recreational Projects
- Canal reservation green line improvement
- Expressway reservation area green line improvement

Name of the Project	Kiribathgoda Mu	lti-Story Car Park with Over Head Pedestr	rian Corridor					
Division of the Projec	ct Service Plan und	Service Plan under the Infrastructure Development Strategy						
Project Description								
Province	District	Divisional Secretary's Division	GN Division					
Western Province	Gampaha District	Kelaniya	Thalawathuhenpita South					
Location								
North	Colombo – Kandy Mai Road	n						
South	Kiribathgoda Bus Star	nd Proposed Kiri Ch ^{orto} Proposed Kiri	bathgoda Multi-Story					
East	Wetland							
West	Kiribathgoda Public Market		"På,					
Land Extent	0.5 Acres	5-11						
Current Status / Landuse of the Surrounding -								
		osite side of the public market in Jinadas nd Colombo-Kandy main road.	a Nandasena Mawatha which located in Middle of					
	2010rnmont 27 de							
Land Ownership (Government Lands							

Expected Status											
Type of Project	New		Impr	ovement		Exten	sion		Land Improvem	Land Improvement only	
	×										
Project Category	Conservation (Environment or Archeological)	Commercia	al	Landscape & Recreational Activities	Housi	ing	Relocation	D	nfrastructure evelopment	Others	
Rational of the Project	very closer to the r addition, approxim Kandy Corridor wh requirement of pul there is a need to p	nain highway nately 100,00 ich is presen blic infrastru provide a mul	v inter 00 cor tly wit cture ti-sto	ted with the Nation changes of Kadawa nmuters daily arrive th a high congestion facilities along with reyed car park with .,000 by 2030s and	tha and e to this n will be n the pro overhea	Peliyag area, th furthe oposed d bridg	goda and provi nrough this ro r increased du Ragama - Nara ge, which facili	de a h ad net e to ir Ihenp tates) - Kandy Road an igh-level connec twork. Further, Co ncrement of the ita Light Railway. to satisfy the req	tivity. In olombo – Therefore,	
Project Objectives	• Provide d	laily requiren	nents (of the future passer	nger cor	nmunit	iy.				
Imaginary Situation	AttractioMinimise	n of Public ca the traffic c	ssenge onges	ers	sengers						
Project Period	Short Period (1>Yea	r		Middle period (1-3 Yea	r)	×	ong I	Period (3< Year)		
Project Related Zone	High Density comm	ercial Zone	1								

Name of the Project	Multipurpose Commercial C	Complex at Kiribathgoda Town	n Centre
Division of the Project	Economic Development Pla	n	
Project Description			
Province	District	Divisional Secretary's Division	GN Division
Western	Gampaha	Kelaniya	Thalawathuhenpita South
Location			
North	Colombo – Kandy Main Road	the second	KFC RE
South	Kiribathgoda Bus Stan	na Devi School	Suilding Proposed Multipurpose
East	Jinadasa – Nandasena Mawatha	Laksela Trade Cen	Commercial Complex
West	Kiribathgo-da Public Mar- ket /YMBA Hall	Atilice Ly Domino'	Kiribathgoda
Land Ex- tend	01 Ac - 2 R - 39 P		Police Station
Current Status / Landuse of the Surrounding	well-known for its pre- def the city center is more than	ined ready-made clothes and	Kiribathgoda town can be identified a one of the main commercial hub adjacent to Co-lombo. Kiribathgoo which has inter-connections wit Colombo-Kandy Road, Wattala an Makola road and located proximity t the Kadawatha, Peliyagoda an Kerawalapitiya Ex-presswa Interchanges provides eas accessibility in terms of region s a major mixed commercial center in the Region. The area is related end products. The existing Public Market building is ated condition. There are about 151 trade stalls functioning is

Land Ownership	Kelaniya PS							
Expected Status	_							
Type of Project	New		Improvement		Extensio	n	Land Imp only	rovement
	×							
Project Category	Conservation (Environment or Archeological)	Commerci	ial Landscape &Recreational Activities	Housi	ng F	Relocation	Infrastructure Development	
		×						
the Project Project	100,000 who c population will Considering the Development P with modern fa	ome to obta exceeds 200 ese facts, it i lan preparec cilities in sa	ribathgoda area is not ain their variety of requ 0,000 dues to the futu s planned to develop K d for the year 2030. Fo me location.	uirements. ure develop úiribathgoo r this purp	Further the oment proj la as a High ose, it is pr	e predictions s ects such as D n-Density Com	uggested that the co evelopment of Light mercial City Centre ir core the public marke	mmuting Railway. 1 the
Objectives	• Optir	nization of	under-utilized lands w lities for daily commut	ithin the t	-	-		
Imaginary Situation					 Cor Cor Mu pec 	nstruction of a nnect Public M		omplex. ne Proposed
Project Period	Short Period (1)	Year	Middle peri	od (1-3 Yea	ar)	×	Long Period (> 3 Ye	ar)
Project Related Zone	High Density Co	ommercial Z	one.					I

Name of the	Recreational Park at	Kiribathgoda Town Centre	
Project			
Division of th	e Public Open Space u	nder Sustainable Environmental St	trategies
Project			
Project			
Description			
Province	District	Divisional Secretary's Division	GN division
		Ş	
Western	Gampaha	Kelaniya	Thalawathuhenpita South
Location	I		
The land is lo	cated between the Main	Kadawatha – 4.6 km	Them-wasemilla Ra
Road and the		Mahara – 2.1 km	
Hapugahawe	lla canal adjacent to the	Cost un a	
Jinadasa Nan	dasena alternative Road	32 20	
at Kiribathgo	oda town has been	Joins Contraction	Therbiligash
proposed for	^r this project. It is	there compared	Proposed Site
proposed to	develop a Linear Park	CON	
along the sm	all canal located in the		
back yard of	the Multi Storey car park	Tayer Junction	
up to Makola	Road with 500m.	-2.1 km	
		Vesep.	
			Jack Contraction of the second s
		Airbaingoula c	1340 ⁸
		Peliyagoda – 3.8 km Kelaniya Temple – 4 km	
Land Extent	Existing marshlan	d – 5 Acres	
	Existing Canal – 1	.5 km	
Current			
Status /			
Landuse of			
the			
Surroundin	1	L BIN	THE THE PARTY OF T
g	A Store Consult		
		1 Constance	Section 1. The section of the sectio
	E. P.M.	- The second	
	Barn 12 Mars		
	State And	Salar and a second	
	State Lan		
			A CARLES AND
			ng the canal and the canals are blocked. This is a great obstacle
	for the beautification of t	he city, and this may cause floodin	ng.

Land ownership Expected Status	Department of Irr	rigation					
Expected		-					
Status							
- cucus							
Гуре of	New	Impi	rovement	Ex	tension	Land Im-pro	ve-ment only
Project							
	×						
Type of	Conservation C	ommercia	Landscape &	Housing	Relocatio	n Infrastructure	Other
Project	(Environment l		Recreational			Development	
	or		Activities				
	Archeological						
)						
			×			×	
Detie 1 (This and				Deed Marth 1 At 1		
Rational of						ola, Kadawatha, Peliyagoda	
the Project			-			re provide all over the regi	-
					igoda to get service	s. However, the existing fac	cilities are
	inadequate to pro	ovidefacili	ties for this popula	ation.			
Draigat		-					
Project Objectives		Entertainr	nent facilities for t	he tourists an	d the commuters.		
Imaginary							
Situation	This linear park co	nsists of jo	ogging tracks, food	outlets, seati	ng facilities, landsca	ping with tree lines.	
		9 1					
		Sad Allen	and a series of	3.15			
	Last	Antes	Row	100		25	
	alonio -	and a					
	Jim					ear	
	Jinadasa Nand						
		^{lasena} Mw	and the second		Selection of the		
	The second	3 in 1			and a state		
	Kir Bus	ibathge A	No.	-	AN ANY	7	
			Ha	ipugaha We	la Canal 🛛 🌌	4	
			and the second s		And the second s	and a	
Project	Short Period (1>Ye	ear	Middle period	(1-3 Year)		Long Period (> 3 Year)	×
-	Short Period (1>Ye	ear	Middle period	(1-3 Year)		Long Period (> 3 Year)	×
-	Short Period (1>Ye	ear	Middle period	(1-3 Year)		Long Period (> 3 Year)	×
Project Period Project		ear Densitye	Middle period	(1-3 Year)		Long Period (> 3 Year)	x
Period			Middle period	(1-3 Year)		Long Period (> 3 Year)	×

Name of the Project	New bypass road f	or Kiribathgoda linking Peliyago	oda-Mahara	
Division of the Proje	ct Transport Plan of I	nfrastructure Development Stra	ategy	
Project Description				
Province	District	Divisional Secretary's Division	GN Division	
Western Province	Gampaha District	Kelaniya		ga-ma, Wewalduwa, Egoda Ia, Thalawathuhenpita North
Location It is proposed to star from Peliyagoda up to Wanawasala, then all the boundary of Dippitigoda marshy across the Wewelduw Road, from the Dingiywatta playgro connecting Eeriyawe Road (Wetland boun across the Vihara Ma Devi Road and Vito Mawatha connecting Eeriyawetiya Road ar Hospital Road across northern boundary of Thalawathuhenpita wetland to connect w the Colombo – Kand Main Road.	so ong land, wa und tiya dary ha g nd s the of with	Col	ed Bypass Road	Mahara
Land Extent	This road is proposed to o	develop with 4 lanes (width of 22	2 m) up to distance of abou	t 4.75 km
Current Status / Landuse of the Surrounding	existing road across the I residential area and the r	is proposed along the marshy la riyawetiya and to connect with t oad will run through the marshy oad again through the marshy ar	the Kiribathgoda Hospital R y area from Kiribathgoda Ho	oad. This area is presently a ospital Road and connect to
Expected Status				
Expected Status Type of Project	New	Improvement	Extension	Land Improvement only

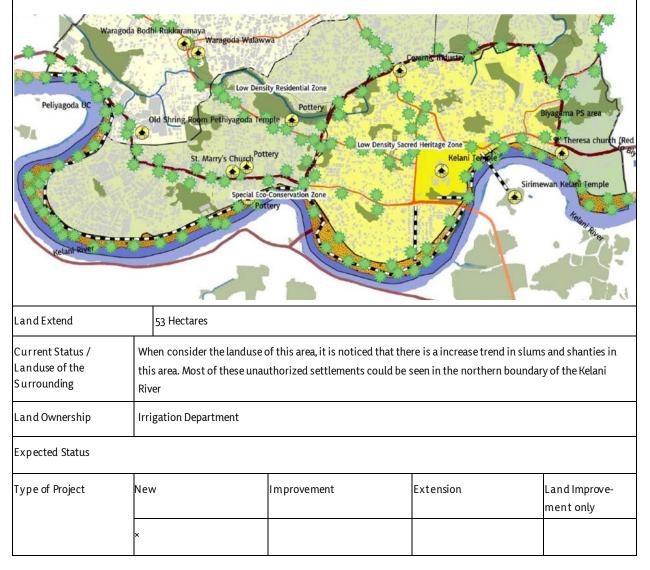
Project Category	Conservation (Environment or Archaelogical)	Commercial	Landscape & Recreational Activities	Housing	Relocation	Infrastructure Development	Others
						×	
Rational of the Project	closer to Colom can be seen thro the Com-trans s lane out of the s the average hou	bo City, it could bughout the day study team in 20 seven major lane rly capacity and	be identified as a facing inconvenion 14, Colombo - Kar s connecting the	city which is direc ence to the passer ndy corridor has b Colombo City. At	ctly affected l ngers. Accord peen identifie present, Cold	ibathgoda Town is loo oy the traffic. Hence, l lance to the survey co d as the second - higl ombo - Kandy Main Ro ecorded as 4400 (pcu	neavy traffic inducted by nest traffic bad exceeds
Project Objective	• To meet the n Road.	eeds of the futu	re daily passenge	rs and to reduce t	raffic conges	tion on the Colombo	- Kandy Main
Imaginary Situation	and • The r Playgroun • Conr Mawatha	Total Wi Building oad starting from oad which will ad connecting of nect Iriyawetiya Road ect Hospital Road	dth of the 2 nd Price g Line of the 2 nd Price n Peliyagoda up t be constructed connect to Wewa road and Hosp I (Wetland bound	with 4 lanes sta Iduwa road (Dalı ital road via Vih ary).	ara Maha De	lary of Dippitigoda n Wewalduwa Dingiy	awatta
Project Period	Short Period (1>	Year	Middle perio	od (1-3 Year)	×	Long Period (> 3 Yea	
Project Related Zone	High Density Ind High Density Comme	-	stic Zone, High D	ensity Higher Edu	cation Zone, I	High Density Residen	tial Zone,

Name of the Project	Transport Centre Develo	pment Project at Hunupitiya Town C	entre.					
Division of the Project	Service Plan of Infrastrue	Service Plan of Infrastructure Development Strategy						
Project Description								
Province	District	Divisional Secretary's Division	GN Division					
Western	Gampaha	Kelaniya	Welegoda					
Location								
North	Hunupitiya Railway Station							
South	Kiribathgoda - Hunupitiya Road	Station Road						
East	Hunupitiya Commu- nity Centre		Hur pitiya 2 Sri Yuthukumaran Temple					
West	Colombo – Katuna- yake Highway		Station Road HUTTupitiya					
Land Extent	5 Ha.	Hunupitiya Junctiona Hunupitiya Junctiona Jungati a Jungati a Jung	Von Fertilizers mpany Limited Hunupitiya Police Po Jayanthi Mahal Junction					
Current Status / Landuse of the Surrounding	It is proposed to use the	existing Fertiliser Storage Complex	land for Development of Transport Centre					
Land Ownership	Urban Development	Authority						
Expected Status								

Type of Project	New	New Improvement				Exten-sion			Land Improvement only	
	×									
Project Category	Conservation (Environment or Archaeological)	Comme		Landscape & Recreational Activities	Housin	g	Relocation		I frastructure evelopment	Others
Rational of the Project	the railway static proposed to deve neighbourhood places such as ra facilities for the along with futur	on to be lo elop Hunuj under the H ilway stati passenger: e developn	cated a pitiya a (elaniy ons, bu s of the nent pr	the main railway line t Hunupitiya town, w s a Transport Center a Development Plan. Is stands and parking e railway transportati oposals and therefo d neighboring areas	vill directl which pro Becouse, g areas as ion. Simila re the Hur	ly affects ovide pul , there is a Transp arly, arou	the Hunupitiya blic transport f no interconnec ort Hub. The m and 90,000 pec	Kottawa a area. T acilities tion am ain obje ople are	herefore, it has for the transi long transport ctive is to pro expected to n	as been it -based rt related ovide nigrate
Project Objectives	• Develo	p Hunupit	iya area	a as a transport hub f	or transit	-based r	ieighbourhood	S.		
Imaginary										
	ModerrSmall sParking	nisation of Icale Bus S	Hunur tand.	tiya railway crossing	-	estrian	valkways.			
Project Period	Short Period (1>Y	ear		Middle period (:	1-3 Year)		×	Short P	eriod (> 3 Yea	r)
Project Related Zone	High Density Indu	ıstrial and	Logisti	c Zone						

Name of the Project	Development of Linear Park at North bank of Kelani River and Access Way Development						
Division of the Project	Sacred Area Plan under Culti	acred Area Plan under Cultural and Heritage Management Strategy					
Project Description							
Province	District	PS Division	GN Division				
Western	Gampaha	Kelaniya	Kelaniya, Sinharamulla, Pilapitiya, Mawalla, Pethiyagoda				
Location							

The reservation area bounded by the northern boundary of Kelani river and the southern boundary of Kelaniya PS Area has been proposed for this project.



Project Category	Conservation (Environment or Archeological)	Commercial	Landscape &Recreational Activities	Housing	Relocation	Infrastructure Development	Others
			×				
Rational of the Project	feeling is decrea higher than the	ising with the urb	tributes greatly to t panization of the re e long run, heat wa D14.	gion. Moreove	er, temperature	of the surface are	ea is
Project Objectives	• Take a	ction to increase	the sacred feeling i	n the sacred a	irea.		
Imaginary							
	LandsoImprov	e recreational factors the road network ion of toilets and	rotect the green co ork	ver			
		se the sacred feel opment of Access					
Project Period	Short Period (1>Y	'ear	Middle perio	d (1-3 Year)	×	Short Period (> 3 \	(ear
Project Related Zone	Special Eco (Zone	Conservation	· · · · · · · · · · · · · · · · · · ·				

Name of the Project	Canal Development Projects		
Division of the Project	Strategic Disaster Management	t Plan for Environmental Sustainability	
Project Description			
Province	District	Divisional Secretary's Division	GN Division
Western	Gampaha	Kelaniya	
Location			
 Restoration of Natha Ela (From Gonawala up to Kalu Ela – 3Km.) Restoration of Iriya Ela (From Iriyawatiya up to Kalu Ela – 3.4Km.) Restoration of Hapugahawella (From Kiribathgoda up to Mahara Mudun Ela – 7.3 Km.) 	JC area Hupppity	Alta University Of Kelani	Bonto kandi Aribathgota Hapugaha Wella
4.Restoration of Mudun Ela - 800m 5.Restoration of Kumbal Oya	Petryagoda	Kumbat Oya	• Biyagama PS area
(From Gonawala up to Kelani River at Pethiyagoda – 6Km)	Calombo	Rivagama Road	te To Biyagama Relan
Land Ownership	Irrigation Department		

Expected Status										
Type of Project	New Improvement				Extension			Land Improve-ment only		
			×							
Project Category	Conservation (Environment or Archeological)	Commercia	al	Landscape & Recreational Activities	Housir	ng	Relocation	e	frastructur evelopment	Others
Rational of the Project	due to urbaniza generation has green colour of	tion and ind been increas this area has	ustrializ ed up to been re	is relatively high ation. Heat island: the highest in 20 moved. Consideri green ecosystem.	s are rapi 09-2014	dly incre . Becau	eased in relatior use of the above	n to the t -mentio	ime and the ned challeng	heat es, the
Project Objectives	• To m	inimize the t	emperat	ture of the area an	d to incre	ease the	e sacred feeling	of the sa	acred area.	
Imaginary Situation	RestoRestoResto	 Development of Natha Ela Restoration of Eriya Ela Restoration of Hapugahawella Restoration of Mudun Ela Restoration of Kumbal Oya 								
Project Period	Short Period (1)	Year		Middle perio	od (1-3 Ye	ear)	×	Long F	Period > 3	
Project Related Zone	Whole Kelaniya	PS area		1				<u> </u>		I

Name of the Project	Development of Overhead Pe	destrian Corridor at YMBA Junction	and Eriyawetiya Junction.
Division of the Project	Service Plan of Infrastructure	Development Strategy	
Project Description			
Province	District	Divisional Secretary's Division	GN Division
Western	Gampaha	Kelaniya	Kiribathgoda
Location			
One of the overhead pedestrian bridges proposed in front of Public Market – Kiribathgoda. Other one is proposed at Eriayawetiya junction near the community hall in Colombo – Kandy Main Road		yawetiya Inction	YMBA Junction
			150,000 vehicles are travelled through this area MBA Hall could be seen around YMBA Junction.
Land F Ownership	Road Development Authority		
Expected Status			

Type of Project	New		Impro	vement		Extensi	on	Land Improvement only			
	×										
Project Category	Conservation (Environment or Archeological)	Commerci	al	Landscape & Recreational Activities	Housi	ng	Relocation		frastructure evelopment	Other	
								×			
Rational of the Project	Accordingly, the in this case, the transportation Colombo – Kane town up to Kela	This is considered as the second major corridor among the 5 major corridors to enter for the City of Colombo. Accordingly, there is a traffic jam of 4400 PCUs in Colombo – Kandy corridor. Normally a high PCU value is 3300 and, in this case, the PCU has been exceeded the maximum level. When compare the frequency of bus travel and passenger transportation of Colombo – Kandy Road with other transport corridors, there is an increase in this situation in Colombo – Kandy Road. This traffic congestion is mainly due to the 6 passenger lanes available from Kiribathgoda town up to Kelaniya University. Therefore, the drivers have to park their vehicles along these lanes. This delay will further increase the traffic congestion.									
Project Objectives	• Minimizin pedestriar	-	congest	tion and Creation of	a comm	nercial are	ea with a cond	ucive env	rironment fo	r	
Imaginary Situation		 Construction of Pedestrian Bridge at YMBA Junction. Construction of Pedestrian Bridge at Iriyawetiya Junction. 									
Project Period	Short Period (1)	>Year		Middle perio	d (1-3 Ye	ar)	×	Period	>3		
Project Related Zone	High Density Co	ommercial Zo	on e	I			I	1			

Name of the	Development of main access roads towards sa	cred area
Project		
Division of the	Improvement of Roads Under Cultural and Her	itage Management Strate-gies.
Project		
Project		
Description		
Province	District	Divisional Secretary's Division
Western	Gampaha	Kelaniya
Location		
 It is proposed to develop Eksath Mawatha, Pilapitiya Mawatha and Shramadana Mawatha. Road will be developed from Thorana Junction to Sacred area. From Thorana Junction to Sacred area (14m width) Tyre Junction to Sacred area (From Tyre Junction to Sacred area - 14m width) From Kiribathgoda to Sacred area (14m width)) 	Wanawasala Eas Upphigoda Thorana Junction Himbutuweigoda Bethy agoda	equebry a East University of East University
Current Status / Landuse of the Surrounding		r Kelaniya Temple through Colombo - Biyagama Road. In addition, junction as well as Tire Junction to the sacred area.
Land Ownership	Road Development Authority	

Expected											
Status											
Type of	of New		provement	Exten	ision	Land Im-p	provement				
Project						only					
		×									
Project	Conservation	Commercial	Landscape	Housing	Relocatio	n Infrastructure	Other				
Category	(En vironment		& Recreational			Development					
	or		Activities								
	Archaeological)										
						×					
Rational of	The Kelaniya Raja	l amaha Viharaya c	I ontributes greatly	to the sacred fe	eeling in the H	kelaniya area. But due to	the				
the Project	urbanization of t	his region, the sa	credness of the re	gion is abolishi	ng. In order t	o overcome this situatio	on, it is				
-	urbanization of this region, the sacredness of the region is abolishing. In order to overcome this situation, it is proposed to improve the access roads. Although the access to the sacred area presently provides through Biyagama -										
	Colombo road, possibility of improving this sacred feeling is at a low level. Considering these facts, it is proposed to										
	develop access roads to sacred areas.										
Project	Improv	vement of the sa	cred feeling of the	Kelaniya Sacree	d area.						
Objectives			0	5							
Imaginary											
Situation											
			-		- 196						
		100		-	10						
			·		-	**					
		2	() Harrison								
		andscap rice lines	ane way	enter Island - Tree Corridor Carriage way	ane	tice lines					
	× 3	k with L	Bicycle Lane Carriage way	nter Island - Tr Corridor Carriage way	Bicycle Lane	liity serv					
		Side wal & Ut	e 3	Cent	B	See CH					
		1.5m	1.5 m 3.5 m	2 m 3.5 m	1.5 m 1.	5 m					
	Total Width of the 3 rd Priority Road : B Category = 15 m Building Line of the 3 rd Priority Road : B Category = 7.5 m										
		lement of damag ing of Roads	ed houses								
Project Period	Short Period (1>Y		Middle peri	od (1-3 Year)	×	Long Period (> 3 Yea	ar)				
riojectrenoù			midule perio	να (τ−ς τ c αι)	Î		ui j				
Project	Moderate Density	y Residential Zon	e]					
Related Zone	Low Density Resi										
	Low Density Sacr										

Name of the Project	Improvement of Green parts toward the sacred area	
Division of the Project	Improvement of Roads Under Cultural and Heritage Ma	nagement Strategies.
Project Description		
Province	District	Divisional Secretary's Division
Western	Gampaha	Kelaniya
Location		
It is proposed to establish green paths both side of the road from Thorana junction to sacred area, Tire junction to sacred area and Kiribathgoda to sacred area through the proposed road development.	n Manavasala East Deptigoda Dalugar	Envented Fooda EnverKintbathgoda Fooda EnverKintbathgoda Nereldoova Nereldoova
Current Status / Landuse of the Surrounding	At present, the area does not feel the sacred value which ble and either side of the road congested with buildings.	end with the Kelani temple. Access roads are very narrow
Land Ownership	Road Development Authority	

Expected Status											
Type of Project	New	Improvement		Extensi	on		Land Impro	ovement	only		
	×										
Project Category	Conservation Commerc (Environment or Archeological)	ial Landscape & Recreationa I Activities	Housi	sing Relocatio		e	frastructur evelopment	Other			
Rational of the Project	Since the surface temperate with the surrounding area. has been recorded in 2009 removed. Considering the a green ecosystem.	Heat islands has been – 2014. Due to the cha	increase allenges	d rapidly nentione	with time and the data with time and the data with the dat	he highes color of ti	t temperatur his area has b	e genera een	tion		
Project Objectives	• To take action to area.	• To take action to minimize the temperature of the area in order to increase the sacred feeling of the sacred									
Imaginary											
Situation											
	Resettlement ofWidening of RoaDevelopment of										
Project Period	Short Period (1>Year	Middle per	iod (1-3 '	Year)	×	Long P	eriod (> 3 Yea	ar)			
Project Related Zone	Low Density Sacred and He	itage Conservation Zo	one		I	<u> </u>					

Name of the Project Establishment of New Kelani Valley Crescent Road Division of the Project Improvement of Roads Under Cultural and Heritage Management Strategies. Project Description Province District Divisional Secretary's Division Western Gampaha Location Vecentural Galboralla Junction and connected to Galboraella and Kohalwija	iya
Division of the Project Improvement of Roads Under Cultural and Heritage Management Strategies. Project Description Province District Divisional Secretary's Division GN Division Western Gampaha Kelaniya Pilpitiya, Galboralla, Kelani Location Vector Galboralla Junction Galborella	iya
the Project Project Description Province District Divisional Secretary's Division GN Division Western Gampaha Location	iya
Project Description Province District Divisional Secretary's Division GN Division Western Gampaha Location Veoamuna This road Starts from Lio Road Junction Galborella Junction Galborella	iya
Province District Divisional Secretary's Division GN Division Western Gampaha Kelaniya Pilpitiya, Galboralla, Kelani Location Image: Construction of the secretary of	iya
Western Gampaha Kelaniya Pilpitiya, Galboralla, Kelani Location Image: Constraint of the second starts from Lio Road Junction and appageted Image: Constraint of the second starts from Lio Road Junction and appageted	iya
Location This road starts from Lio Road Junction and connected Galborella Galborella Galborella Galborella	iya
This road starts from Lio Road Junction and connected	
starts from Lio Road Junction and connected	
and Kohalwila area near Red Church of Kelaniya which is located along Colombo - Biyagama road Width of the road is 26 m (4 lanes with the service road) and length of the road is 4.1 Km.	
Current Status / Landuse of the Surrounding	os and houses
Expected Status	
	Im-prove-ment
	m-prove-ment
Project only	
Project only	ture Other
Project only × Image: Conservation Commercial Landscape & Housing Relocation Infrastruct	
Project only × Image: Conservation Commercial Category (Environment Environment Category Category Category Category Category Conservation Commercial Category Commercial Commercial Category Commercial Category Commercial Category Commercial Category Category Commercial Category Category Category Commercial Category Commercial Category Commercial Category Commercial Category Commercial Category Commercial Category Category Commercial Category	
Project only × Image: Conservation Commercial Category Landscape & Recreational or 0r Commercial Commercial Commercial Category Landscape & Recreational Activities	
Project only × Image: Conservation Commercial Category (Environment Environment Category Category Category Category Category Commercial Commercial Category Commercial Category Commercial Category Commercial Category Cate	
Project Conservation Commercial Landscape & Housing Relocation Infrastruct Category (Environment or Or Activities Or	

Rationalof	The Kelaniya Rajamaha Viharaya contributes greatly to the sacred feeling in the Kelaniya area. But due to the								
the Project	urbanization of this region, the sacredness of the region is abolishing. In order to overcome this situation, it is proposed to improve the access roads. Although the access to the sacred area presently provides through Biyagama - Colombo road, possibility of improving this sacred feeling is at a low level. Considering these facts, it is proposed to develop access roads to sacred area.								
Project	• Formation of environmentally friendly area to improve the sacred feeling of the Kelaniya sacred area while								
Objectives	minimizing traffic congestion.								
Imaginary Situation	4 m Sige wilk with 1 and sealing & thirds Bingreaming & thirds 1 and sealing & thirds and sealing 1 and sealing for the 2 nd And build build and build build 1 and sealing for the 2 nd And build build and build build 1 and sealing for the 2 nd And build build build build 1 and sealing for the 2 nd And build build and build build 1 and sealing for the 2 nd And build build and build build 1 and sealing for the 2 nd And build build and build build 1 and sealing for the 2 nd And build build and build build								
	 Resettlement of damaged houses Widening of Roads Development of green belt 								
Project Period	Short Period (1>Year Middle period (1-3 Year) Long Period (> 3 Year) ×								
Project Related Zone	Low Density Sacred and Heritage Conservation Zone								

Name of the Project	Establishment of Information Ce	ntre and New Pilgrims Resting Area	a - Kelaniya
Division of the Project	Cultural and Heritage Manageme	nt Strategies.	
Project Description			
Province	District	Divisional Secretary's Divi-sion	GN Division
Western	Gampaha	Kelaniya	Kelaniya
Location			
The old building adjacent to the Kelani River located behind the Kelaniya Raja MahaViharayahas been identified for this project. This is located between the Temple Road in front of the Kelaniya Temple and the northern bank of Kelani River.			Information Centre and New Pilgrims Resting Area
Current Status / Landuse of the			
Surrounding			
	The existing old building in this ter presently used for lodging place fo		y. It is a single storey building, which is

Land Ownership	Kelaniya Rajamah	a Viharaya					
Expected Status							
Гуре of Project	New		Improvement		Extension	Land Improvement only	
	×						
Project Category	Conservation (Environment or Archeological)	Commercial	l Landscape & Housing Recreational Activities		Relocation	Infrastructure Development	
	×						
Rational of the Project	Apart from that C of the Kelaniya Te	over 200,000 pi emple. However,	gn pilgrims come to Igrims arrive for the H there is no adequate elaniya sacred place a	Kelaniya Vihar resting facili	a Perahera whic ities for the pilg	h is the major cul rims as well as inf	tural festival
Project Objectives	• Provisio place.	on of lodging fac	ilities for the pilgrim	s as well as in	formation abou	t history of Kelani	iya sacred
Imaginary							
Situation					NTORS NTER		
	LandscaProvision	oment of Resting upe and natural e on of Toilet facil oment of inform	nvironment ties and resting areas				
Project Period	Short Period (1>Y	ear	Middle pe	riod (1-3 Year	·)	Long Period	(> 3 Year)
Project related Zone	Low Density Sacr	ed and Heritage	Conservation Zone		I	I	

6.7.2 Responsible Agencies

Table 6.21 Responsible Institutional Framework

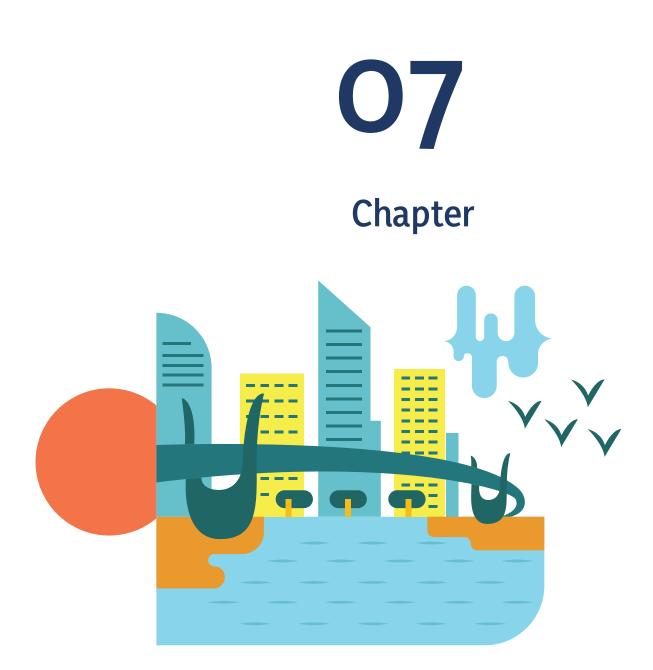
Plan	Sub Plans & Operational Projects	Relevant	Liability of Implementing		
		Organizations	Organizations		
	Services Supply Plan				
	1. Middle Income Housing Project and Commercial	NHDA.	Prepare a Feasibility Study		
	Complex at Hunupitiya	UDA.	Hand Over Land for the Project		
	2. Climate Resilience Improvement Project – Relocation	Irrigation Dept.	Implementation of the Project		
	of Unauthorized Housing on Kelaniya River bund	NHDA	Hand Over Land for the Project		
	3. Multi Storied Car Park with Fly overs for Pedestrians	UDA	Implementation of the Project		
		Kelaniya PS	Hand Over Land for the Project		
	4. Construction of Pedestrian Fly Overs at YMBA &	RDA	Implementation of the Project		
	Eriyawetiya Junctions	UDA			
Physical & Social	5. Modernization of Sarasavi Studio at Tyre Junction	National Films	Hand Over Land for the Project		
Infrastructure		Corporation			
Development Strategies		UDA	Implementation of the Project		
	6. Transport Complex Development Project at Hunupitiya	RDA	Carry out a Feasibility Study		
	Town Center	UDA	Implementation of the Project		
		Railway			
		Department			
	7. Light Railway Station Development (Hunupitiya,	Railway	Hand Over Lands for the Project		
	Kiribathgoda, Tyre Junction and Polhena)	Department			
		JICA	Implementation of the Project		
		RDA			
		UDA			
	8. Re-habilitation of Kelaniya Bus Stand (Nungamugoda TOD)	Kelaniya PS	Hand Over Land for the Project		
		UDA	Implementation of the Project		
		RDA			
	9. New Public Commercial Complex at Hunupitiya	UDA	Implementation of the Project		
		Kelaniya PS	Implementation of the Project		
	10. Establishing Weekly Fair at Hunupitiya	UDA	Prepare a Feasibility Study		
		Kelaniya PS	Implementation of the Project		
	11. Creation of Mixed Development Square at Hunupitiya	UDA	Prepare a Feasibility Study		
	Town Centre	Kelaniya PS	Implementation of the Project		
	12. Modernization of Base Hospital at Kiribathgoda				
	13. Improvement of Snake Poisons Hospital				
	14. Establishment of New Engineering Faculty for University of Kelaniya at Dasa Building Premises				
	Water Supp	l oly Plan			

	15. Water Purification Unit, ii Phase at South bank of	NWS&DB	Implementation of the Project		
	Kelani River at Pattiwila				
	16. Establishment of Water Purification Unit at Mabuma	NWS&DB	Implementation of the Project		
	Solid Waste Management Plan				
Physical & Social Infrastructure Development Strategies	17. Modernization of solid Waste Recycling & Compost Yard at Manelgama	UDA			
		Kelaniya PS	Implementation of the Project		
	18. Manelgama – Wanawasala Waste exchanging Project and Sanitary Land filling Project at Aruwakkulu				
	Wastewater Management Plan				
·	19. Peliyagoda – Kelaniya Wastewater Management	NWS&DB	Implementation of the Project		
	Project				
	Roads & Transportation Plan				
	20. Alternative Road connecting Peliyagoda and Mahara	RDA	Implementation of the Project		
		UDA			
	21. Widening of Hunupitiya – Wattala Road into 4 lanes	RDA	Implementation of the Project		
		UDA			
	22. Widening of Local Road (Inner Roads) Kiribathgoda	UDA	Implementation of the Project/		
	Hospital Road/ Eriyawetiya Road/		Carry out Feasibility Study		
	Wevalduwa/Dippitigoda/ Koholwila Roads and Wanawasala – Wattala Road	RDA	-		
	23. Development of Hunupitiya Railway Cross Road with Pedestrian Lanes	UDA			
		RDA	Implementation of the project		
		Railway	Consultancy services for the		
		Department	implementation of the project		
	24. Proposed road linking Nungamugoda and Polhena proposed Railway Stations	Railway	Consultancy services for the		
		Department/	implementation of the project/		
		RDA/ UDA	Implementation of the project		
	25. Electrification of main railway line	Railway	Implementation of the project		
		Department			
		UDA			
	26. Biyagama- Kosgama new railway line	Railway	Implementation of the project		
		Department			
		UDA			
	27. Construction of Ragama – Narahenpita Light Railway Line	JICA	Carry out Feasibility Study		
		Railway	Implementation of the Project		
		Department			
	28. Hunupitya – Kottawa Light railway line	JICA	Carry out Feasibility Study		
		Railway Department	Implementation of the Project		
		1) and where and			

	29. Construction of New Kelani Bridge – Kelaniya – Pahala Hanwella	UDA			
	Economic Development Plan				
	1. Regaining Clay manufacturing at Galborella	UDA	Implementation of the Project		
		National Crafts	Consultancy services for the		
		Council	implementation of the project		
	2.Mixed Commercial Complex at Kelaniya	UDA	Implementation of the project		
Economic		Kelaniya PS	Obtain Funds		
Development	3. Multi- functional commercial centre at Kiribathgoda	UDA	Implementation of the project		
Strategies		Kelaniya PS	Acquire lands for the project		
	4. Development of Commercial corridors at Kiribathgoda	UDA	Implementation of the project		
		Kelaniya PS	Acquire lands for the project		
	Landscape Management Plan				
	5. Green Strips Development projects for sacred areas	UDA	Implementation of the Project		
	access roads	Kelaniya PS	Obtain Funds		
Sustainable	6. Green Strips development projects for Canal	UDA	Implementation of the Project		
Environment	conservation	Irrigation	Consultancy services for the		
Development		Irrigation Department	implementation of the project		
Strategies					
	Disaster Risk Management Plan				
	7. Canal Network development projects	Irrigation Department	Implementation of the project		
		Kelaniya PS	Obtain Funds		
	8. Construction of water pump house at Pethiyagoda	Irrigation	Implementation of the project		
		Department			
	Open Spaces Plan				
	9. Linear park at the Kiribathgoda Town Centre	Irrigation	Carry out Feasibility Study		
		Department			
		Kelaniya PS	Obtain Funds		
		UDA	Implementation of the project		
	10. Linear Park at Hunupitiya	Irrigation	Carry out Feasibility Study		
		Department			
		Kelaniya PS	Implementation of the project		
		UDA	Implementation of the project		
	11 Watlande Dark with Dedactrian Daths	-			
	11. Wetlands Park with Pedestrian Paths	Irrigation Department	Carry out Feasibility Study		
		Kelaniya PS			
		UDA	Implementation of the project		
	12. Pedestrian lane linking Hunupitiya – Wattala	Irrigation	Carry out Feasibility Study		
	Junctions on Kalu Ela bank	Department			

		Kelaniya PS	Obtain Funds
		UDA	Implementation of the project
	Sacred Area Development Plan		
	1. Sacred Area access gates development project,	Kelaniya PS	Obtain Funds
	Thorana & tyre Junctions, Kiribathgoda	UDA	Implementation of the Project
	2. Reestablishment of Police station – Kelaniya	SL Police Dept.	Implementation of the Project
		NHDA	Obtain Funds
Cultural and		UDA	Carry out Feasibility Study
Heritage Management	3. Construction of new Pilgrim's rest places and	Kelaniya PS	Obtain Funds
Strategies	information centre at Kelaniya	UDA.	Implementation of the Project
	4. Construction of New Open spaces for pilgrims in Kelaniya	UDA	Implementation of the project
		Archaeological	Providing Consultancy Services for
		Department	implementation of projects
	 Development of Linear parks at North bund of Kelani river 	UDA	Implementation of the project
	nvei	Irrigation Dept.	Providing Consultancy Services for
			implementation of projects
	6. Suspension Bridge linking Egoda Kelaniya and Megoda Kelaniya	NPPD	Implementation of the project
	7. Development of access road on the north bank of Kelani river	UDA	Carry out Feasibility Study
	8. Construction of piers for boats on the banks of Kelani river	NPPD	Implementation of the project





Development Zones and Zonning Guidelines

Chapter 07 Development Zones and Zonning Guidelines

7.1 Introduction

Kelaniya Development Plan 2021-2030 has prepared with the purpose of achieving the futuristic vision "The Urban Locus of Divinity". To achieve this vision for the next 10 years, it has prepared goals and objectives by focusing on natural environment and its historical value, settlement and infrastructure as well as economic development. It has been proposed to concentrate on the Kelaniya sacred area and from there to the north of the area to increase the intensity of the urban characteristics. Hence to achieve this futuristic vision in the real ground situation, it has prepared Environmental Management strategies for environmental conservation and disaster risk reduction, e conomic development strategies for economic development, Culture and Heritage management strategies for heritage management, Infrastructure Development Strategies for all social and physical infrastructure development as clearly mention under volume I.

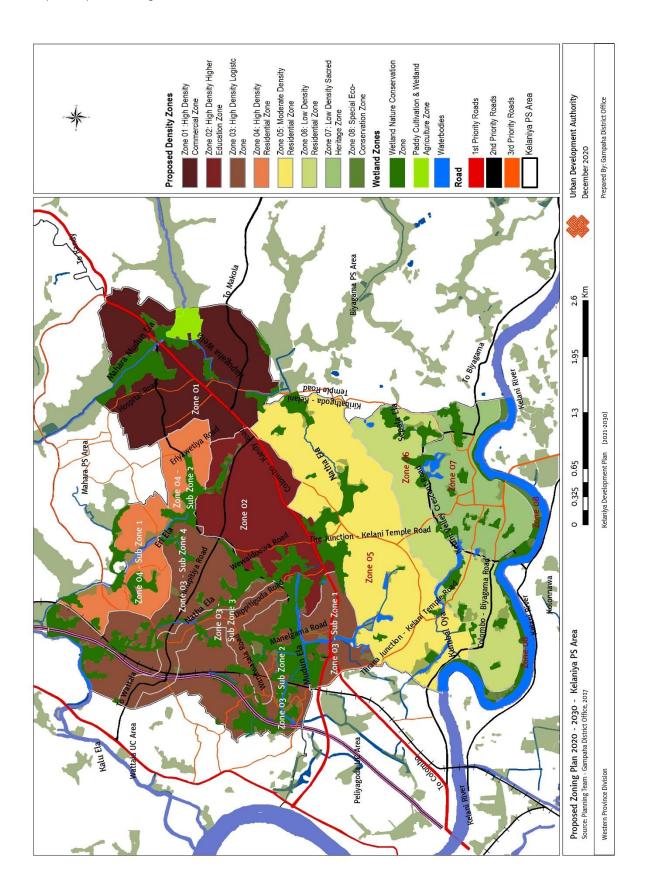
In addition to the proposed strategic projects under these various plans as clearly mention under the volume I, the proposed zoning and zoning Guidelines as well as Planning and building Guidelines have been introduced in accordance with the vision for the Kelaniya area as outlined in the Proposed Land Use Plan. Especially this zoning intervention goes beyond the traditional land use zoning and it aims to achieve the expected urban form with a density-based development zone. This chapter describes the development zones, zone factor, boundary coordinate, permitted uses and zoning Guidelines that have been identified to develop in a proper manner.

7.2 Development Zones

This area has been divided into eight major development zones based on the proposed densities and characteristics unique to each zone as outlined in the vision for the year 2030 for the Kelaniya PS area.

- 1) High Density Commercial Zone
- 2) High Density Higher Education Zone
- 3) High Density Logistic Zone
- 4) High Density Residential Zone
- 5) Moderate Density Residential Zone
- 6) Low Density Residential Zone
- 7) Low Density Sacred Heritage Zone
- 8) Special Eco-Conservation Zone
- 9) Wetland Nature Conservation Zone
- 10) Paddy Cultivation & Wetland Agryculture Zone

Map 7.1 shows the location of above mention ten zones. Part of the High-Density Logistic Zone and High-Density Residential Zone is included to the Colombo Commercial City Development Plan 2019-3020; accordingly, this relevant zone has subdivided to sub zones based on the Zoning plan of Colombo Commercial City Development Plan. It should be noted that the formulation and determination of this zoning plan is the result of several specific and scientific analyzes. As shown in annexure 44 the Composite analysis of Development potentials, environmental sensitivity, Livability, infrastructure availability and the quantitative analysis was based on to decide the proposed density zones.



7.3 Zone Factor

The Zone Factor is calculated to determine the density of the zones for each region in accordance with the density-based zoning plan. Basically, it is the total required space for both residential and daily commuter population with expected development in the year 2030 for achieving the futuristic vision. It is based on the current residential and commuter population in the area and calculate total developable space for the forecasted population by the year 2030.

Commercial, Residential, institutions, vacant lands and other plantation land uses are considered as Developable Space and Environmental conservation areas, water bodies, Religious and archeological sites, Roads and railway land uses consider as Un-developable Lands.

Accordingly, calculation of the Zone factor is based on the complex five steps as describe in annexures 45. The zone factor which calculates through this steps, developable area and required permissible floor area in each zone as follows.

Zone	Required permissible floor area for the year 2030 (m2)	Developable foot print (m2)	Zone Factor	
Special Eco-Conservation Zone	18654.38	125481.90	0.1	
Low Density Sacred Heritage Zone	643477.84	1132049.49	0.5	
Low Density Residential Zone	789473.26	1493437.37	0.5	
Moderate Density Residential Zone	2111464.80	2805801.02	0.75	
High Density Residential Zone	1620133.12	1106924.88	Sub Zone - 1 1	
ngh benshy hishachthar zone	1020133.12	1100924.00	Sub Zone - 2 1.46	j
			Sub Zone - 1 1.81	
High Density Logistic Zone	5475748.46	3021126.61	Sub Zone - 2 1	
	5475740.40	5021120.01	Sub Zone - 3 1.25	
			Sub Zone - 4 1	
High Density Higher Education Zone	4544667.36	1711917.21	2.65	
High Density Commercial Zone	5696569.35	1951867.08	2.92	

Source: Gampaha District Planning Team, 2021

A portion of the High-Density Logistic Zone and the High-Density Residential Zone will be prepared in line with the Colombo Commercial City Development Plan 2021-2030. Determination of Permissible Floor area for developments According to the Form 'A' 'B' in Schedule 6 to Part IV of the Extraordinary Gazette Notification No. 2235/54 dated Thursday 08th July 2021, the coefficients applicable to the Kelaniya Development Plan indicated by table number 7.2 and 7.3

In determining the open space of the building pertaining to the said permissible floor area, the form 'E' of the above Gazette is indicated and it is specified in the Kelaniya Development Plan in the table number 7.4.

											Form A	Form A - Permissible Floor Area Ratio	sible Flo	or Area	a Ratio												
	Zon	Zone factor = 0.50 - 0.74	= 0.50	- 0.74	Zor	ne facto.	Zone factor = 0.75-0.99	-0.99	Zone	Zone factor = 1.00-1.24	1.00-1.2		Zone factor = 1.25-1.49	tor = 1.	25-1.49	ZC	Zone factor = 1.50-1.74	ır = 1.50	-1.74	Zone	Zone factor = 1.75-1.99	= 1.75-1.	66.		Zone facto	Zone factor = 2.00-2.24	2.24
	Ξ	Minimum Road Width	Road W	'idth	M	nimum	Minimum Road Width	idth	Minir	Minimum Road Width	ad Widt		Minimu	Minimum Road Width	Width	N	Minimum Road Width	Road W	idth	Mini	Minimum Road Width	bi Mid	th		Minimum	Minimum Road Width	lth
Land extent (Sq.M)				15m				15m or				15m			15m				15m				15 m				
	**6m	m6 (12m	or above	**6m	- 6 -	12m	above	**6m	9m 1	12m	or ** above	**6m 9m	m 12m	m or above	**6m	ш В	12m	or above	**6m	m6	12m a	or above	*em	9m 12m		15m or above
150 less than 250	0.8	0.9	0.9	0.9	1.3	1.3	1.4	1.4	1.6	1.7	1.8 1	1.9 2	2.0 2.2	.2 2.3	3 2.4	2.4	2.6	2.7	2.8	2.8	3.0	3.2	3.3	3.0	3.4 3.	3.6	3.8
250 less than 375	0.9	1.0	1.2	1.3	1.3	1.6	1.8	2.0	1.8	2.2	2.4 2	2.7 2	2.2 2.7	.7 3.0	.0 3.3	2.6	3.2	3.6	4.0	3.0	3.4	4.3	4.7	3.2	3.6 4.	4.5	4.5
375 less than 500	0.9	1.0	1.2	1.4	1.3	1.6	1.9	2.1	1.9	2.2	2.5 2	2.8 2	2.3 2.8	.8 3.2	.2 3.4	2.7	3.3	3.8	4.2	3.2	3.5	4.5	5.0	3.4 3	3.7 4.	4.8	5.2
500 less than 750	1.0	1.1	1.3	1.5	1.4	1.7	2.0	2.2	2.0	2.3	2.7 3	3.0 2	2.4 3.0	.0 3.4	.4 3.5	2.8	3.4	4.0	4.5	3.4	3.6	4.7	5.5	3.5 4	4.0 5.	5.0	6.0
750 less than 1000	1.0	1.2	1.4	1.7	1.5	1.8	2.2	2.5	2.1	2.4	2.9 3	3.3 2	2.6 3.0	.0 3.6	.6 4.0	3.1	3.6	4.3	5.0	3.5	3.8	5.1	6.0	3.6 4	4.5 5.7	.7	6.5
1000 less than 1500	1.1	1.3	1.5	1.8	1.6	1.9	2.3	2.7	2.2	2.5	3.0 3	3.6 2	2.7 3.1	.1 3.8	8 4.5	3.2	3.8	4.6	5.5	3.6	4.0	5.4	6.5	3.7	5.0 6.1	.1	8.0
1500 less than 2000	1.1	1.4	1.7	2.0	1.7	2.1	2.5	3.0	2.3	2.7	3.4 4	4.0 2	2.9 3.4	.4 4.2	.2 5.0	3.4	4.0	5.0	6.0	3.7	4.2	5.8	7.0	3.8	5.1 6.7	7	9.0
2000 less than 2500	1.2	1.5	1.8	2.1	1.8	2.3	2.7	3.1	2.4	2.8	3.5 4	4.2 3	3.0 3.	3.5 4.4	.4 5.4	3.5	4.2	5.2	6.5	3.8	4.4	6.2	7.5	3.9	5.2 7.1	1	*10
2500 less than 3000	1.2	1.6	2.0	2.4	1.9	2.4	3.0	3.6	2.5	3.2	4.0 4	4.7 3	3.1 3.	3.8 4.7	.7 5.8	3.6	4.4	5.5	7.0	3.9	4.6	6.5	8.0	4.0	5.3 7.4	4	*10.5
3000 less than 3500	1.3	1.7	2.1	2.5	2.0	2.5	3.1	3.7	2.6	3.4	4.2 5	5.0 3	3.2 4.	4.0 5.0	0 6.2	3.7	4.6	6.0	7.5	4.0	4.8	6.9	8.5	4.0	5.4 7.	7.6	*11
3500 less than 4000	1.4	1.8	2.2	2.6	2.2	2.6	3.3	3.9	2.8	3.6	4.3 5	5.3 3	3.3 4.3	.3 5.5	5 6.6	3.8	4.8	6.3	7.7	4.0	5.0	7.3	9.0	4.0	5.5 7.	7.8	*11.5
More than 4000	1.5	1.9	2.3	2.8	2.5	2.8	3.5	4.0	3.0	3.8	4.5 5	5.5 3	3.5 4.	4.5 6.0	0.7.0	4.0	5.0	6.5	8.0	4.0	5.2	7.5	9.5	4.0	5.6 8.	8.0	*12
	ZOI	Zone factor = 2.25-2.49	r = 2.25	-2.49	Zor	ne facto	Zone factor = 2.50-2.74	-2.74	Zone	Zone factor = 2.75-2.99	2.75-2.9	6															
	Ξ	Minimum Road Width	Road W	'idth	Ϊ	nimum	Minimum Road Width	lidth	Minir	Minimum Road Width	ad Widt	5															
Land extent (Sq.M)				15m				15m or			1	15 m															
	**6m	- 9m	12m		**6m	- 6 -	12m	above	**6m	9m 1	12m	o															
		_				_	_			-		above															
150 less than 250	3.0	_	3.6	-	_	,	-	4.0	3.0	-	-	4.0															
250 less than 375	3.5	3.8	4.5	5.0	3.5	4.0	5.0	5.5	3.5	4.2	5.0 5	5.5															
375 less than 500	3.6	4.5	4.7	5.5	3.6	4.6	5.2	6.0	3.6	4.7	5.2 6	6.0															
500 less than 750	3.7	5.0	5.0	6.0	3.7	5.1	5.5	6.5	3.7	5.2	5.5 6	6.5															
750 less than 1000	3.8	5.1	6.0	6.5	3.8	5.2	6.5	7.0	3.8	5.3	7.0 7	7.5															
1000 less than 1500	3.9	5.3	6.5	8.5	3.9	5.4	7.0	9.0	3.9	5.5	7.5 5	9.0															
1500 less than 2000	4.0	5.4	7.0		4.0	5.5	7.5	*10.5	4.0	5.6	7.5 *1	*10.5															
2000 less than 2500	4.0	5.5	7.5	-	4.0	_	7.5	*11	4.0	5.7	8.0 *	*11															
2500 less than 3000	4.0	5.6	7.5	*11	4.0	5.7	8.0	*11.5	4.0	5.8	8.0 *1	*11.5															
3000 less than 3500	4.0	5.7	8.0	-	4.0	5.8	8.0	*12	4.0	5.9	_	*12															
3500 less than 4000	4.0	_			4.0	5.9	8.0	*12	4.0	_	_	*12															
More than 4000	4.0	5.9	8.0	*UL	4.0	6.0	8.0	*UL	4.0	6.0	8.0 *	*UL															
UL - Unlimited																											
Floor area allocated for parking facilities are not calculated for FAR	rki ng fa	cilities a	are not	calcula	ted for	FAR																					
Above Floor Area Ratio shall not be applicable for the zones where number of floors or FAR indicated under the zoning regulations	l not be	applica	able for	- the zon	ies whe	renumt	ber of flα	ors or F	AR indic:	ated und	er the zc	oning re	gulation	ō													
Above Permissible FAR may be restricted under the development plan	berest	ricted un	nder the	e devel c	pment _i		sed on t	based on the slope of the land	of the la	р																	
from National Building																											
10.0 shall be permitted only	~																										
** Minimum road width of 7m shall be considered for the roads identified as 7m wide road in the particular development Plan	m shall	be cons	sidered	for the	roads i	dentifie	d as 7m	wide ro	id in the	particul	ar deve	lopment	Plan														
												-				I											

Table 7.2 Permissable Foolr Area Ratio for Zones

Source: UDA,2021

Table 7.3 Number of Floors for 03m & 4.5m Wide Roads

	Fo	rm B - Number	of Floors for 3	.0m & 4.5m wide	e Roads	
Minimum	Minimum	* Plot		Maximum Nu	umber of Floors	
Road Width	Site Frontage	Coverage	Zone Factor 0.5 - 0.74	Zone Factor 0.75 - 1.24	Zone Factor 1.25 - 3.49	Zone Factor 3.50 - 4.00
3.0m	6m	65%	1 (G)	2 (G+1)	3 (G+2)	3 (G+2)
4.5m	6m	65%	1 (G)	2 (G+1)	3 (G+2)	4 (G+3)
Number o	f floors are ind	icated includi	ng parking are	as.		
Number o	f units allowed	l for each road	l shall not be c	hange.		
* Where n	o plot coverage	e specified un	der the zoning	regulations.		
Source: UDA	2021					

Source: UDA,2021

Table 7.4 Setbacks and open spaces

			Foi	rm E - Setb	acks & Op	en Spaces				
	Building	Minimum	* Plot Cov	/erage	Rear Sp When no NLV	ace (m) When NLV is	Side Spa When no NLV is	ce (m) When NLV is	Light We Minimu m width	ll for NLV Minimu m Area
Building Category	Height (m)	Site Frontage (m)	Non - Residenti al	Resident Ial	is taking this end	taking this end	taking this end	taking this end		
Low Rise	less than 7	6	80%**	65%	2.3m	2.3m	-	2.3m	2.3m	5 Sq.m
LOW RISE	7 less than 15	6	65%	<mark>65</mark> %	3.0m	3.0m	-	3.0m	3.0m	9 Sq.m
Inter Mediate Rise	15 less than 30	12	65%	65%	4.0m	4.0m	1.0m and 3.0m	4.0m	4.0m	16 Sq.m
Middle Rise	30 less than 50	20	65%	65%	4.0m	5.0m	3.0m both side	5.0m	5.0m	25 Sq.m
High Rise	50 less than 75	30	50%***	50%***	5.0m	6.0m	4.0m both side	6.0m	6.0m	36 Sq.m
Tilgit tube	75 and above	Above 40m	50%***	50%***	5.0m	6.0m	5.0m both side	6.0m	6.0m	****

NLV - Natural Light & Ventilation

Building Height - Height between access road level to roof top or roof level (Including parking floors).

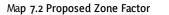
* Where no Plot Coverage specified under the zoning regulations.

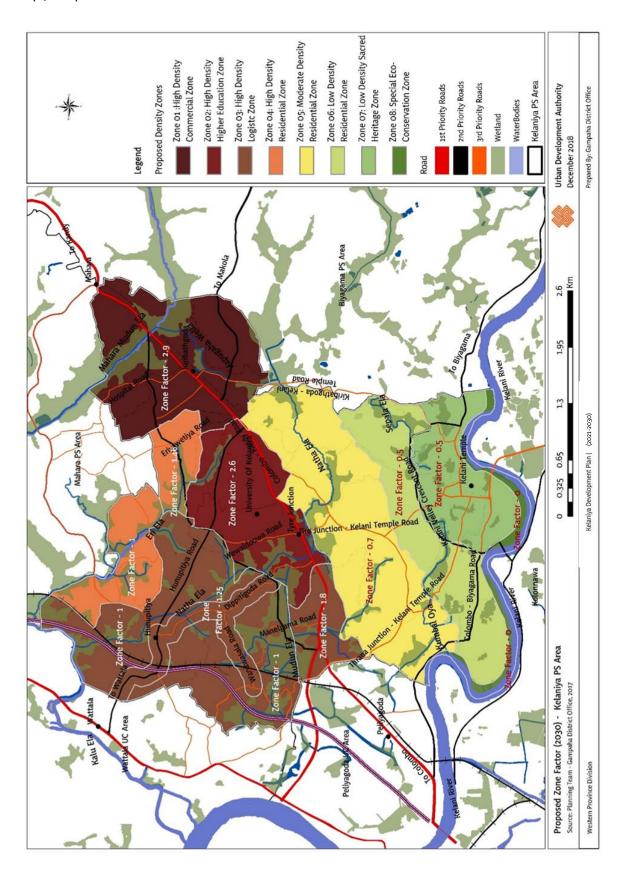
** The entire development is for non-residential activities.

*** 65% plot coverage can be allowed only for the podium level not exceeding 20% of the tower height or 12 floors which ever is less.

**** Minimum area shall be increased by 1 Sq.m for every additional 3m height.

Source: UDA,2021





7.4. Common Guidelines for Planning Area

The general guidelines applicable to all zones in addition to the rules and Guidelines introduced for each of the proposed zones as follows.

- 7.4.1. These guidelines apply to the entire area within the administrative limits of the Kelaniya Pradeshiya Sabha area which has been declared as an Urban Development Area in the Extraordinary Gazette Notification No. 1171/10 and 13.02.2001 under Section 3 of the Urban Development Authority Act No. 41 of 1978.
- 7.4.2. In addition to the provisions of this zoning plan, the Planning and Development Regulations applicable to any development work is regulated by the Gazette Notification No 2235/54 dated o8th July 2021. The said legalized Planning and Development Regulations also apply to the Kelaniya Pradeshiya Sabha planning area.
- 7.4.4. As per the zoning plan, the UDA is the final decisicion making authority the approval for any use not mentioned in permissible uses category.
- 7.4.5. The maximum floor area for each development activity is determined by a mathematical equation and it has described in chapter 02 under the Planning and Building Guidelines. The UDA has the power in determining the total area of the land to be approved for development. This regulation does not apply to development controlled zones. Identified special Guidelines apply to control development based on site specificity.
- 7.4.6. Regarding the first land lots adjoining a boundary of two zones at either side, the developer can develop the land as per the permissible uses allowed in either of adjoining zones. In here, this condition is applicable considering either the first lot or the area falling within 100m buffer. The applicant has the right to decide the proposed development based on Zoning Factor. Further, this regulation is not applicable for Special Ecoconservation Zone.
- 7.4.7. All planning zones are subject to the Acts, Gazette Notifications and Circulars issued by other state agencies.
- 7.4.8. When conserving, rehabilitating or modernizing any of the buildings or places with archaeological importance, such developments should be in accordance with the recommendations given by a committee appointed by UDA with the representation of other stakeholder agencies.
- 7.4.9. Boundary walls exceeding 3 feet height are not allowed within these areas, and any construction which at as visual or physical barricade between access roads and waterfronts will not be approved.
- 7.4.10. Any building which will use solar power as energy solutions, additional 5% of either relevant FAR or of plot coverage will be granted as decided by the Authority.

- 7.4.11. Any development activity within the area which has identified by the Department of Archelogy as an Archaeological Sites, clearance and recommendation should be obtain by the Department of Archelogy.
- 7.4.12. All low-lying lands and paddy lands, water retention and detention areas included in proposed Wetland Management Plan should be in accordance with the planning and building Guidelines of Western Province Wetland Management Plan Accordingly when referring the Guidelines in every sub zone.
- 7.4.13. When a particular land plot is located adjacent to a certain waterfront, if the remaining open space left excluding the built-up plot coverage is open and used to provide public access to the particular waterfront, the developer will be granted with an additional 10% of relevant FAR as a development promotional provision.
- 7.4.14. The facades and backyards of all buildings should be well-maintained as it suits with particular waterfront development.
- 7.4.15. All developments adjoining waterfronts should be accompanied with waste water management plan and waste water management should be in compliance with Guidelines of Central Environmental Authority.
- 7.4.16. When constructing buildings in waterfront development projects, ¼ of land width should be arranged as the waterfront can be viewed from the access road. Where there are several land plots with the access road & amp; waterfront areas; buildings on other lands should be designed in order to maintain ¼ of open space above the width of the land. (ground floor).
- 7.4.17. If the water from open space of any development activity is open for the public, permission for the maximum 20% of floor area will be granted with the relevant inspections.
- 7.4.16. Landscape Plans should be submitted when submitting building plans which are in association with waterfronts for approval.
- 7.4.18. Buildings coming under waterfront developments should be designed and constructed as it suits with the surrounding environment. The building colours, and materials (non-reflective materials) should be carefully selected as it suits with the surrounding environment.
- 7.4.19. Regarding a building adjoining a particular street dominated fully or partially with shopping and commercial buildings, the façade of the building should be designed with specified characteristics and should have an arcade of specified width that will be bound to the edge of the façade and shall be exceeding four stories as specified by the Authority. Regarding such development approval, the Authority has the power to release any of the other Guidelines and requirements.
- 7.4.20. The special development project areas and special development guide plans areas will have separate Guidelines as per the relevant plans and projects.

- 7.4.21. The authority has a power to release and decide the building regulation for low income settlements regarding the relevant Kelaniya PS area .
- 7.4.22. When constructing, a new religious building, approval should obtain from the relevant Ministry of Religious Affairs and the relevant Divisional Secretary. Also, religious exhibitions should be held with the approval of the Divisional Secretary. Permission will not be granted for the construction of various religious statues, crosses and other signs within the building line and reservation, junctions and road sides in the planning boundary. When constructing any new religious building, consent of the sixty six percent (66%) of people who are in within 0.5 Km radius from the relevant place should obtain by the relevant Grama Niladharies and submitted to the relevant Divisional Secretariat.
- 7.4.23. Permission will not be granted for constructing boundary wall within the building line of RDA, PRDA and Local Authority roads and approval will be considered for plans that are designed with a transparent fence or similar system to replace the boundary walls with minimal space required to widen access.
- 7.4.24. Permission will be considered to continue the existing not permissible uses in proposed zones and permission will not granted for expansion or renewal of existing not permissible uses.
- 7.4.25. The authority has a power to declared any area as a Special Project Area, Redevelopment Area, Special Housing Project Area, Central Commercial Area, Visionary Area, Conservation Area, Cultural Area or any other area where the Authority deems appropriate.
- 7.4.26. The Authority may use, restrict or prohibit the use of land areas for the purpose of constructing any particular building in the areas specified in above 22, easing the restrictions imposed by these Acts, or imposing other rules or Guidelines for the purposes of the area.
- 7.4.27. Boundary of the Zone in zoning plan has mention in Google Earth Coordinate point (WGS_1984).
- 7.4.28. Permission will not be granted for Liquor shops, clubs and Guest Houses in within the Sacred Heritage Zone and minimum 500 M from the religious places and schools will be allowed the Liquor shops, clubs and Guest Houses for other zones.
- 7.4.29. If any development activity within the low-lying lands and paddy lands, water retention and detention areas not included in proposed Wetland Management Plan or Proposed Public Outdoor Recreation Space Plan should obtain the clearance from the authority.
- 7.4.30. The identified project areas under the Proposed Public Outdoor Recreation Space Plan should be use for only that purpose.
- 7.4.31. To obtain the recommendation of the Central Environmental Authority for classification "A" and "B" in the setting up of prescribed industries for which the EPL is to be obtained under the National Environmental

Act No. 1533/16 and the Gazette Extraordinary dated 25.01.2008. Also, recommendation should be obtained from the relevant Local Authority Environmental Committee or Central Environmental Authority for category "C".

- 7.4.32. A cemetery shall act in accordance with the cemetery ordinance when constructing a building or developing such a building.
- 7.4.33. Special Guidelines for Wetlands in Kelaniya PS. This wetland zoning is valid only for the all wetlands in the Kelaniya PS Area.

7.4.33.1. Flood storage capacity shall be maintained as specified by the Sri Lanka Land Development Corporation (SLLDC) in co-ordination with the other relevant agencies of the appendix 01. Increased storm water run-off owing to increase in built-up areas and owing to expected extreme climatic events as a result of global warming and climate change shall be taken into account.

7.4.33.2. Clearance shall be obtained from the agencies of No. 01, 03, 04, 05 and 09 mentioned in appendix 01 prior to development of low-lying lands/ abandoned paddy lands and paddy lands. Where necessary clearance or approval of the other relevant agencies mentioned in appendix 01 shall also be obtained when the ownership of wetland is delegated to them by an act.

7.4.33.3. The environmental clearance or Environmental Protection License (EPL) shall be obtained for any development which effects wetland environment from no.03, 05 agencies of the appendix 01 and shall be renewed annually.

7.4.33.4. Recommendation / Approval (final clearance certificate) of No. 01 agency of appendix 01 shall be annually renewed as per the decision of planning committee.

7.4.33.5. Canal reservation of no.1662/17 published by the gazette notification dated 14.01.2010 of the agency No.01 and reservation of reservoirs of agency No.02 at the appendix 01 shall be maintained.

7.4.33.6. In general, there shall not be any construction within water bodies and waterways which disturbs the water retention and water flow. But exceptions may be made for focal features/buildings, piers, picnic shelters, cabanas on stilts, fishing decks, boardwalks, etc. in keeping with a project masterplan or design guide plan approved by the UDA, not compromising drainage or flood detention capacity. Recommendation and Approval shall be obtained from relevant agencies of No. 01 & 02-22 of the appendix 01.

7.4.33.7. Areas of special ecological interest shall be preserved and in such areas no vegetation or animals except invasive species of plants and animals shall be removed.

7.4.33.8. All permitted buildings shall be designed according to the Green Building Concept.

7.4.33.9. Alternative places shall be established for decrease flood storage capacity and the other impacts of environmental services when practicing Permitted uses in wetland where flood storage capacity is important. Approval shall be obtained from the relevant agencies of the appendix 01. 7.4.33.10 In any wetland areas permitted for filling under the no. 01 agency of appendix 01, sustainable storm water drainage systems should be used. Approval shall be obtained from the CEA for materials to be used for wetland filling.

7.4.33.11. Areas of outstanding landscape/cultural/historical value shall be conserved.

7.4.33.12. Legal public footpaths and public bathing wells shall be preserved or replaced in suitable nearby locations.

7.4.33.13. The services of relevant qualified professionals shall be obtained by developers for planning, design and supervision, as necessary.

7.4.33.14. All areas shall be preserved where fish and other aquatic animal's breed.7.4.33.15 In general, waste dumping shall not be permitted (Residential, Institutional, Commercial,

Industrial, E-waste and Clinical waste) in to wetlands.

7.4.33.16. Release of waste water to wetlands is not allowed. Treated water with the approval of CEA shall only be permitted to release to the wetland areas.

These guidelines should be included as conditions in the licenses issued by the institutions mentioned in the schedule regarding the development activities in the wetland areas and the violation of those conditions will lead to the cancellation or imposition of penalties.

Schedule no – 01

- 1. Sri Lanka Land Development Cooperation
- 2. Department of Irrigation
- 3. Central Environmental Authority
- 4. UDA
- 5. Kelaniya PS
- 6. Department of Forest Conservation
- 7. Department of Wildlife Conservation
- 8. National Building Research Organization
- 9. Department of Agrarian Development
- 10. Department of Archaeology
- 11. National Aquatic Resources Research and Development Agency
- 12. Geological Survey and Mines Bureau

- 13. Western Provincial Council
- 14. National Water Supply & Drainage Board
- 15. National Aquaculture Development Authority
- 16. Ceylon Electricity Board of Sri Lanka
- 17. Building Department of Sri Lanka
- 18. Road Development Authority
- 19. Department of Fisheries and Aquatic Resources
- 20. Sri Lanka Navy
- 21. Gampaha District Secretariat
- 22. Kelaniya Divisional Secretariat

Kelaniya Development Plan (2021 -2030) Urban Development Authority



Zonning Guidelines

Chapter 08 Zonning Guidelines

8.1. High Density Commercial Zone

8.1.1. Zonning Guidelines and Permissible Uses for High Density Commercial Zone

Table 8.1 High Density Commercial Zoning Guidelines

(a.)	Zoning Definition	Priority is given to encourage further high-density vertical
		commercial development in the Kiribathgoda area, which currently
		serves as a major shopping center. Here, the subdivision is
		discouraged and a high density environmentally friendly urban
		environment is expected. The region commercial and service
		requirements for the daily commuters and residential population to
		provide a high -density zone that the will and the environment are
		expected to harmonize with conservation.
(b.)	Zone boundaries (Coordinates)	Refer annexure 46.1
(c.)	Zoning Factor	2.92
(d.)	Approved height limits	The approved height limit is determined by the zone factor.
(e.)	Approved plots coverage's	i. Non- Residential - 60%
		ii. Residential - 65%
(f.)	General Terms Related to the Zone	The minimum lot size of the land sub division is 10 perches.
		The development activities with the Land Amalgamation is expected
		to promote within this area for the quality Commercial
		development.
		If any building of the commercial purpose should consist with four
		or more than four floors
		2.5m width of strip in front of any development which face to RDA
		or PRD road should allocated for arcade development within 1 km
		radius around the Kiribathgoda Town Centre. And additional two
		times of floor area as allocated land is given as a 'Fare Share'.
		A minimum area of 5% of the proposed land should be reserved for
		green cover.
		Any government, semi-government of private institutional
		development should be consisting with the 'Green Concept'.

Permissible Uses

Table 8.2 Perrmissible uses in High Density Commercial Zone

No.	Permissible Uses	Minimum Extent of the Land (Sq.m)	Achievable Maximum Floor area
(a.) C	ommecial		
I.	Shops	10	
I.	Supermarkets	20	
II.	Shopping Malls	20	
III.	Restaurants /Cafeterias	10	
IV.	Open Markets	40	
٧.	Pharmacies	10	
VI.	Laboratory Services and Collection Centers	10	
VII.	Wholesale stores	10 / less than 100 m2	
VIII.	Customer Service Centers	10	
IX.	Meat and fish stalls	10	
Х.	Liquor outlets	10	
XI.	Funeral halls	20 / Hospital access only	
XII.	Funeral halls with ceremony halls	40 / Hospital access only	
XIII.	Hardware	40	
XIV.	Filling stations	40	
XV.	Filling stations and vehicle service centers	60	
XVI.	Filling stations and malls	60	
XVII.	Gas stations and electric charging stations	40	According to the Schedule 1
XVIII.	Communication towers on buildings	10/ Permits are issued under Development Regulation No 19.	
XIX.	Communication towers	12/ Permits are issued under Development Regulation No 19.	
XX.	Multi-storied Vehicle Park	20	
XXI.	Open Vehicle Park	40	
XXII.	Vehicle Showrooms	20	
(b.) Resider	ntial		
l.	Housing units	10	
١١.	Apartment complexes	20 / ground floor – commercial	
III.	Hostels	10	
IV.	Quarters	10	
۷.	Child Care Centers	20	
(c.) Health			
l.	Hospitals	80	
II.	Medical Treatment Centers	10 / less than 50 m2	
.	Medical Consulting Service Centers	20	
IV.	Child and Maternity Clinics	20	
V.	Animal Hospital	40	
VI.	Veterinary Clinics and Treatment Centers	20	
VII.	Ayurvedic Medical Centers	20	
(d.) Institut	tions		

I.	Offices	20 / except ground floor
II.	Office Complexes	20
III.	Professional Offices	20 / except ground floor
IV.	Banks, Insurance & Financial Institutions	20
V.	Automated Money Transfer Centers (ATM)	As per the recommendations of the relevant institutions
(e.) Social se	rvices and public amenities	
l.	Community Development Centers	20
II.	Crematoriums	40
(f.) Tourism		
I.	Resorts	40
II.	Guest houses	10
III.	Rooms	20
IV.	City Hotels	20
۷.	Tourist Information Centers	10
VI.	Ayurvedic Panchakarma Center	20
10 N	turing industry	
I.	Homestead Industries	10 /(Permission is granted only
		for crafts and traditional
		industries that are not harmful
(()))		to the environment.)
(f.) Service Ir		
I.	Vehicle Service Centers	
II.	Vehicle Repair Centers / Spray Painting	
	Centers	
III.	Taxi Service Centers	
IV.	Laundries	
۷.	Grinding & Rice Mills	
VI.	Welding Shops/ Lathe workshops	
VII.	Electronic Equipment Repair Centers	
(g.) Utility Se		
l.	Railway and Bus Terminals	Depends on the project
	nd Recreational Services	
l.	Pocket Park	
II.	Mini Park	
III.	Local Park	
IV.	Community Park	
۷.	Town Park	Depends on the project
VI.	Central Urban Park/City Park	
VII.	Regional Park	
VIII.	Linear Park	
IX.	Indoor Sports Stadiums	40
Х.	Theaters	40
XI.	Clubs	20
XII.	Art Galleries / Museums	20
XIII.	Open Theaters	Depends on the project

The definitions for all these uses are given in Annex 47

8.2. High Density Higher Education Zone

8.2.1. Zonning Guidelines and Permissible Uses for High Density Higher Education Zone

Table 8.3 High Density Higher Educationl Zoning Guidelines

a.)	Zoning Definition	It is expected to promote higher education related uses based on the
		Kelaniya University and this area should be develop with the 'green
		concept'.
(b.)	Zone boundaries (Coordinates)	Refer Annexure 46.2
(c.)	Zoning Factor	2.65
(d.)	Approved height limits	The approved height limit is determined by the zone factor.
(e.)	Approved plots coverage's	Non-Residential - 50%
		Residential - 65%
(f.)	General Terms Related to the Zone	Minimum extent of the land subdivision is 10 perches.
		If change the use of existing Residential or Industrial use to Educational
		Institution or Hostel, 50% from the fees of change of use will be
		released.
		Any development should be covered with 10% or more of green cover
		from the total land extent.
		Any development activity should be accompanied with 'Green
		Concept'.

Permissible uses

Table 8.4 Perrmissible uses in High Density Higher Educational Zone

No.	Permissible uses	Minimum Extent of the	Achievable maximum
		land (P)	floor area
Residentials			
Ι.	Housing Units	10	
١١.	Apartment Complex (Housing)	20	
III.	Hostels	10	
IV.	Quarters	10	
٧.	Child Care Centers	20	
Health			
i.	Medical Centers	10	
ii.	Medical Consulting & Channeling Service	20	According to the shedule
	Centers		1
iii.	Child and Maternity Clinics	20	
iv.	Veterinary Clinics and Treatment Centers	20	
٧.	Ayurvedic Medical Centers	20	
	Educational		

i.	Early Childhood Development Centers	20
	Primary Education Centers	198 p (0.5 he)
 iii.	Secondary Education Centers	593 p (1.5 he)
iv.	Tertiary Education Centers	40
V.	Technical Collages/ Vocational Training	40
۷.	Centers.	40
vi.	Research and Development Centers	40
vii.	Private Tuition Classes	20
viii.	Art Centre / Dance Academy	.20
	Institutional	
i.	Office	10
ii.	Office Complex	40
iii.	Professional Office	10
iv.	Banks, Insurance & Financial Institutions	20
٧.	Automated Money Transfer Centers (ATM)	Decisions are made
		subject to the
		recommendations of
		the relevant
		institutions
	Social services and public amenities	
i.	Community Development Centers	20
ii.	Social and Cultural Centers	20
iii.	Religious centers	80
iv.	Auditoriums and Conference Halls	60
٧.	Libraries	20
	Commercial	
i.	Shops	10
ii.	Supermarkets	20
iii.	Shopping Malls	20
iv.	Restaurants /Cafeterias	10
V	Open Markets	40
vi.	Pharmacies	10
vii.	Laboratory Services and Collection Centers	10
Viii.	Wholesale stores	10/ less than 100m2
ix.	Customer Service Centers	10
х.	Meat and fish stalls	10
xi.	Hardware Stores	40
xii.	Filling stations	40
xiii.	Filling stations with vehicle service centers	60
xiv.	Filling stations with shopping complexes	60
XV.	Gas stations & Electric Charging Stations	40
xvi.	Communication towers on buildings	10/ Permits are issued
		under Development
		Regulation No 19.
xvii.	Communication towers	12/ Permits are issued
		under Development
		Regulation No 19.
xviii.	Multi-storied Vehicle Park	20
xix.	Open Vehicle Park	40
XX.	Vehicle Showrooms	20

	Tourism	
i.	Resorts	40
ii.	Guest Houses	10
iii.	Tourist Hotels	40
iv.	City Hotel	20
۷.	Tourist Information Centers	10
vi.	Ayurvedic Panchakarma Center	20
vii	Cabana hotels	40
	Manufacturing Industries	
	Homestead Industries	10 / Permission is
		granted only for crafts
		and traditional
		industries that are not
		harmful to the
		environment
	Service Industries	
i.	Vehicle Service Centers	20
ii.	Taxi Service Centers	20
iii.	Laundries	10
iv.	Electronic Equipment Repair Centers	10
	Utility Services	
i.	Railway and Bus Terminals	Depends on the project
	Public Open Spaces & Recreation Facil	ities
i.	Pocket Park	Depends on the project
ii.	Mini Park	
iii.	Local Park	
iv.	Community Park	
٧.	Town Park	
vi.	Central Urban Park/City Park	
vii.	Regional Park	
viii.	Linear Park	
ix.	Indoor Sports Complexes	40
х.	Theaters	40
xi.	Art Galleries / Museums	20
xii.	Open Air Theaters	Depends on the project

The definitions for all these uses are given in Annex 47

8.3 High Density Logistic Zone

8.3.1. Zonning Guidelines and Permissible Uses for High Density Logistic Zone

Table 8.5 High Density Logistic Zoning Guidelines

(a.)	Zoning Definition	It is expected to provide logistic and industry-based service facilities within
		this proposed zone while combining with the potential of the nearby railway
		stations and expressway interchange. It will prevent the uneven distribution
		of industries toward the Kelaniya sacred area.
(b.)	Zone boundaries (Coordinates)	Refer Annexure 46.3
(c.)	Zoning Factor	Sub-Zone 1 - 1.81
		Sub-Zone 2–1
		Sub-Zone 3 - 1.25
		Sub-Zone 4 - 1
(d.)	Approved height limits	The approved height limit is determined by the zone factor.
(e.)	Approved plots coverage's	Residential – 65%
		Non-Residential – 65%
		Industry /Warehouse and related uses – 70%
(f.)	General Terms Related to the Zone	Minimum lot size of land sub division should be,
		Residential - 10 perches
		Non-Residential - 20 perches
		Industry /Warehouse and related uses – 40 perches
		Redevelopment, Improvement or renewal of existing residential use is encouraged only it expected to provide industry-oriented hostel facilities. 50% for the UDA parking Regulation will be released for the Light Vehicle Parking Space of Industrial uses. Minimum road width for any industrial uses should be 30 feet (9m). and if any industrial or related development activity is in the case of 9m – 7m road width, permission may be given to consider the land disposal to meet the proposed road width. 3m of tree line buffer should be maintain around any industrial or warehouse activity and relevant landscape management plan should be submitted with the application. Any permissible development activity should be done without encroaching the existing green cover and any industry or related development activity should maintain a 15% of green cover. For all constructions, within 70 M buffer of the Colombo – Katunayake expressway should be compatible with the Development Regulation Circulation no. 26 (Land Use Planning for the Katunayake Expressway Corridor (from January2013).

If any industrial development activity which face to a Water front or a
Wetland (within 100m -200m), the Waste Water Management Plan should
submit with the permission given by the Central Environmental Authority.
If any industrial-based construction which facing a water source or a
wetland, boundary wall is not allowed and permission will be granted only
for the transparent fence.

Permissible uses

Table 8.6 Perrmissible uses in High Density Logistic Zone

No.	Permissible uses	Minimum Extent of the	Achievable maximum
		land (P)	floor area
Residentials			
i.	Housing Units	6	
ii.	Hostels	10/ relevant to Warehouse and industrial	
iii.	Quarters	6	
iv.	Child Care Centers	20	
Health			
i.	Hospitals	80	
ii.	Medical Centers	6	
iii.	Medical Consulting & Channeling Service Centers	20	
iv.	Child and Maternity Clinics	20	
V.	Animal Hospitals	40	
vi.	Veterinary Clinics and Treatment Centers	20	
vii.	Ayurvedic Medical Centers	20	According to the shedule
Educational			1
i.	Tertiary Education Centers	40	
ii.	Technical Collages/ Vocational Training	40	
	Centers.		
iii.	Research and Development Centers	40	
iv.	Art Centre / Dance Academy	20	
Institutional			
i.	Office	6	
ii.	Office Complex	40	
iii.	Professional Office	6	
iv.	Banks, Insurance & Financial Institutions	20	
V.	Automated Money Transfer Centers (ATM)	As per the recommendations of the relevant institutions	
Social services and	l public amenities		
i.	Community Development Centers	20	
ii.	Social and Cultural Centers	20	
iii.	Auditoriums and Conference Halls	60	
iv.	Libraries	20	

Commercial	
i. Shops 6 ii. Supermarkets 20	
iii. Shopping Malls 20	
iv. Restaurants /Cafeterias 6	
v. Open Markets 40	
vi. Pharmacies 6	
vii. Laboratory Services and Collection Centers 6	
viii. Wholesale stores 20	
ix. Warehouses 40	
x. Customer Service Centers 6	
xi. Meat and fish stalls 6	
xii. Liquor /Wine Stores 6	
xiii. Funeral Hall 20	
xiv. Funeral Hall with Reception Halls 40	
xv. Hardware Stores 40	
xvi. Filling stations 40	
xvii. Filling stations with vehicle service centers 60	
xviii. Filling stations with shopping complexes 60	
xix. Gas stations & Electric Charging Stations 40	
xx. Communication towers on buildings 06/ Permits are issue	
under Developme	ent
Regulation No 19.	
xxi. Communication towers 12/ Permits are issue	
under Developme	ent
Regulation No 19.	
xxii. Multi-storied Vehicle Park 20	
xxiii. Open Vehicle Park 40	
xxiii. Vehicle Showrooms 20	
Tourism	
i. Resorts 40	
ii. Guest Houses 10	
iii. Lodges 20	
iv. Tourist Information Centers 6	
v. Ayurvedic Panchakarma Center 20	
vi Cabana hotels 40	
Manufacturing Industries	
i. Metal Products & foundries related 20	
extraction industries	
ii. Oil refineries, petroleum-based chemicals & 40	
distillation industries	
iii. Chemicals, polythene, plastics, rubber & 40	
glass-based industries	
iv. Cement, concrete and ceramic based 40	
products industries	
products industries v. Clay products industries 20	
products industries20v.Clay products industries20vi.Natural fiber-based manufacturing20	
products industries20v.Clay products industries20vi.Natural fiber-based manufacturing industries20	
products industries20v.Clay products industries20vi.Natural fiber-based manufacturing20	

viii.	Electrical & Electronics equipment related	40	
v III.	industries	40	
ix.	Heavy Machinery & Assembly industries	40	
х.	Paper Products and Printing Industries	40	
xi.	Wood / Wood Products & Furniture	40	
	Manufacturing Industries	40	
xii.	Food and non-alcoholic beverage industries	40	
xiii.	Alcohol / local pharmaceuticals, spirits &	40	
	extracts	1-	
xiv.	Recycling activities related industries	40	
XV.	Industrial Infrastructure Facilities Centers	40	
xvi.	Permits are granted subject to the recommer	ndations of the CEA for the	
	above-mentioned industrial practices.		
xvii.	Homestead Industries	6	
Service Indu	stries		
i.	Vehicle Service Centers	20	
ii.	Vehicle Repair Centers / Spray Painting	40	
	Centers		
iii.	Taxi Service Centers	20	
iv.	Laundries	06/ Permission is	
		granted subject to the	
		recommendations of the	
		CEA.	
۷.	Grinding & Rice Mills	10	
vi.	Welding Shops/ Lathe workshops	10	
vii.	Electronic Equipment Repair Centers	6	
Utility Servio	ces		
i.	Railway and Bus Terminals	Depends on the project	
Public Open	Spaces & Recreation Facilities		
	Pocket Park		
ii.	Mini Park		
iii.	Local Park		
iv.	Community Park	Depends on the	
۷.	Town Park	project	
vi.	Central Urban Park/City Park		
vii.	Regional Park		
viii.	Linear Park		
ix.	Indoor Sports Complexes	40	
х.	Theaters	40	
xi.	Clubs	20	
xii.	Art Galleries / Museums	20	
xiii.	Open Air Theaters	Depends on the project	

The definitions for all these uses are given in Annex 47.

8.4 High Density Residential Zone

8.4.1. Zonning Guidelines and Permissible Uses for High Density Residential Zone

Table 8.7 High Density Residentioal Zoning Guidelins

`

(a.)	Zoning Definition	It is expected to meet the needs of the residential population, by providing
(0.1)		residential accommodation for permanent residences and temporary
		workers who working in adjoining industrial areas.
(b.)	Zone boundaries (Coordinates)	Refer Annexure 46.4
(c.)	Zoning Factor	Sub-Zone 1 - 1
		Sub-Zone 2 – 1.46
(d.)	Approved height limits	The approved height limit is determined by the zone factor.
(e.)	Approved plots coverage's	Sub zone 1
		Residential – 65%
		Non-Residential – 65%
		Industry /Warehouse and related uses – 70%
		Sub zone 2
		Residential – 65%
		Non-Residential – 50%
(f.)	General Terms Related to the Zone	Any permissible development activity should be done without encroaching
		the existing green cover and any industry or related development activity
		should maintain a 15% of green cover.
		Permission will be granted for less than 100sq.m of home-based
		manufacturing industrial uses.
		Ŭ
		Minimum road width for the industrial development activity should be 7
		meters wall is not allowed and permission will be granted only for the
		transparent fence.

Permissible uses

Table 8.8 Permissible uses in High Density Residentioal Zone

No	Permissible uses	Minimum Plot Size (Perches) /	Achievable maximum
		Special	floor area
Residential			
i.	Housing Units	06	
ii.	Apartment Complex (Housing)	20	
iii.	Hostel	20	
iv.	Quarters	10	
٧.	Adult / Disabled Homes	20	
vi.	Children's Home	20	
vii.	Child Care Centers	20	
Health			
i.	Medical Centers	10	
ii.	Medical Consulting & Channeling Service Centers	20	
iii.	Child and Maternity Clinics	20	
iv.	Veterinary Clinics and Treatment Centers	20	
V.	Ayurvedic Medical Centers	20	
Educational			
i.	Early Childhood Development Centers	20	
ii.	Primary Education Centers	198 (0.5 he.)	
iii.	Secondary Education Centers	593 (1.5he.)	According to the shedule
iv.	Technical Collages/ Vocational Training Centers.	40	1
V	Research and Development Centers	40	
vi.	Private Tuition Classes	20	
vii.	Art Centre / Dance Academy	20	
Institutional			
i.	Office	06	
ii.	Professional Offices	06	
iii.	Banks, Insurance & Financial Institutions	20	
iv.	Automated Money Transfer Centers (ATM)	Decisions are made subject to	
		the recommendations of the	
		relevant institutions	
	es and public amenities		
i.	Community Development Centers	20	
ii.	Social and Cultural Centers	20	
iii.	Religious centers	80	
iv.	Library	20	
V.	Crematoriums	40	
Commercial			
i.	Shops	06/ less than 100 m2	
ii.	Supermarkets	20	
iii.	Shopping Malls	20	
iv.	Restaurants /Cafeterias	06	
V.	Open Markets	40	
Vi	Pharmacies	06	
vii.	Laboratory Services and Collection Centers	06	
viii.	Wholesale stores	10	
ix.	Customer Service Centers	06	
Х.	Meat and fish stalls	06	
xi.	Liquor /Wine Stores	06	
xii. xiii.	Funeral Hall	20	
	Funeral Hall with Reception Halls	40	

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xiv.	Hardware Stores	40
XIV. XV.	Filling stations	40 40
xv. xvi.	Filling stations with vehicle service centers	60
xvii.	Filling stations with shopping complexes	60
xviii.	Gas stations & Electric Charging Stations	
xix.	Communication towers	40 12/ Permits are issued under
XIX.	communication towers	Development Regulation No
XX.	Multi-storied Vehicle Park	19. 20
xxi.	Open Vehicle Park	
Tourism	Open venicle Park	40
	Resorts	40
i. 		40
<u>ii.</u>	Guest Houses	10
iii.	Lodges	20
iv.	City Hotel	20
V.	Tourist Information Centers	06
vi.	Ayurvedic Panchakarma Center	20
vii.	Cabana hotels	40
Manufacturi		
i.	Clay products industries	20
ii.	Natural fiber-based manufacturing industries	20
iii.	Textile, Clothing & Leather Products Industries	40
iv.	Wood / Wood Products & Furniture	40
	Manufacturing Industries	
۷.	Food and non-alcoholic beverage industries	15
vi	Homestead Industries	06/ workers 5 or less
Service Indu	Istries	
i.	Vehicle Service Centers	20
ii.	Taxi Service Centers	20
iii.	Laundries	06
iv.	Grinding & Rice Mills	10
٧.	Electronic Equipment Repair Centers	06
Utility Servi		
i.	Railway and Bus Terminals	Depends on the project
Public Open	Spaces & Recreation Facilities	
	Pocket Park	
ii.	Mini Park	
iii.	Local Park	
iv.	Community Park	
V.	Town Park	Depends on the project
vi.	Central Urban Park/City Park	
vii.	Regional Park	
viii.	Linear Park	
ix.	Indoor Sports Complexes	40
	Theaters	40
X.		40
xi.	Art Galleries / Museums	20
xii.	Open Air Theaters	Depends on the project

The definitions for all these uses are given in Annex 47

8.5. Moderate Density Residential Zone

8.5.1. Zonning Guidelines and Permissible Uses for Moderate Density Residential Zone

(a.)	Zoning Definition	This zone which closer to the High density commercial, high density higher education and logistic zones, it expected to promote residential uses with moderate density of distribution.
(b.)	Zone boundaries (Coordinates)	Refer Annexure 46.5
(c.)	Zoning Factor	0.76
(d.)	Approved height limits	The approved height limit is determined by the zone factor.
(e.)	Approved plots coverage's	Residential – 65% Non-Residential – 60%
(f.)	General Terms Related to the Zone	 Minimum lot size of the land sub division is 6 perches. 10% of additional floor area is provided for any permissible development activity which followed the concept of 'Green Building'. Permission will be granted for less than 100sq.m of home-based manufacturing industrial uses. Minimum road width for the industrial development activity should be 7 M. Kelani river front should be open for the public and if any development activity in an adjacent land of Kelani river north bund access roads from Colombo – Biyagama Road should be allocated minimum 10 feet for access road.

Table 8.9 Moderate Density Residentioal Zoning Guidelines

Permissible uses

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Table 8.10 Permissible uses in Moderate Density Residentioal Zone

No	Permissible Uses	Minimum Plot Size (Porches) / Special	Achievable maximum floor area
Residenti	ial		
i.	Housing Units	06	
ii.	Apartment Complex (Housing)	20	
iii.	Hostel	06	
iv.	Quarters	06	
٧.	Adult / Disabled Homes	20	
vi.	Children's Home	20	
vii.	Child Care Centers	20	
Health		•	
i.	Medical Centers	06	
ii.	Medical Consulting & Channeling Service Centers	20	
iii.	Child and Maternity Clinics	20	
iv.	Animal Hospitals	20	
	Veterinary Clinics and Treatment Centers	40 20	4
v. vi.	Ayurvedic Medical Centers		-
Educatior		20	
			According to the shedule 1
i. ii.	Early Childhood Development Centers	20	
ii.	Primary Education Centers Secondary Education Centers	198 (0.5 he.) 593 (1.5 he.)	
			-
iv.	Tertiary Education Centers	40	
v.	Technical Collages/ Vocational Training Centers.	40	
vi.	Research and Development Centers	40	
vii.	Private Tuition Classes	20	
viii.	Art Centre / Dance Academy	20	
Institutio	nal		
i	Office	06	
ii.	Office Complexes	40	
iii.	Professional Offices	06	
iv.	Banks, Insurance & Financial Institutions	20	
۷.	Automated Money Transfer Centers (ATM)	Decisions are made subject	
		to the recommendations of	
		the relevant institutions	
Social ser	vices and public amenities		
i.	Community Development Centers	20	
ii.	Social and Cultural Centers	20	
iii.	Religious centers	80	
iv.	Auditoriums and Conference Halls	60	
۷.	Library	20	
vi.	Crematoriums	40	
Commerc	cial]
i.	Shops	06]
ii.	Supermarkets	20	

	1	
iii.	Shopping Malls	20
lv,	Restaurants /Cafeterias	06
۷.	Open Markets	40
vi.	Pharmacies	06
vii.	Laboratory Services and Collection Centers	06
viii.	Wholesale stores	10
ix.	Customer Service Centers	06
х.	Meat and fish stalls	06
xi.	Liquor /Wine Stores	06
xii.	Funeral Hall	20
xiii.	Funeral Hall with Reception Halls	40
xiv.	Hardware Stores	40
XV.	Filling stations	40
xvi.	Filling stations with vehicle service centers	60
xvii.	Filling stations with shopping complexes	60
xviii.	Gas stations & Electric Charging Stations	40
xix.		06/ Permits are issued under
	Communication towers on buildings	Development Regulation No
		19.
XX.		12/ Permits are issued under
	Communication towers	Development Regulation No
		19.
xxi.	Multi-storied Vehicle Park	20
xxii.	Open Vehicle Park	40
xxiii.	Vehicle Showrooms	20
Tourism		
i.	Resorts	40
ii.	Guest Houses	10
iii.	Lodges	20
iv.	Tourist Hotels	40
٧.	City Hotel	20
vi.	Tourist Information Centers	06
vii.	Ayurvedic Panchakarma Center	20
viii.	Cabana Hotels	40
Manufacturin		· ·
i.	Clay products industries	20/ Less than 25 employees/
	cay produces industries	Permits only for industries
		that are not harmful to the
		environment
ii.	Natural fiber-based manufacturing	20/ Less than 25 employees/
	industries	Permits only for industries
	maastres	that are not harmful to the
		environment
iii.	Textile, Clothing & Leather Products	40/ Less than 25 employees/
	Industries	Permits only for industries
	maustres	that are not harmful to the
		environment
iv.	Wood / Wood Products & Furniture	40/ Less than 25 employees/
	Manufacturing Industries	Permits only for industries
	manulacianing industries	i cinicis only for industries

		that are not harmful to the
		environment
v.	Food and non-alcoholic beverage	40/ Less than 25 employees/
	industries	Permits only for industries
		that are not harmful to the
		environment
vi.	Homestead Industries	10 / Less than 10 employees
Service Inc		
i.	Vehicle Service Centers	40
ii.	Vehicle Repair Centers / Spray Painting Centers	40
iii.	Taxi Service Centers	20
iv.	Laundries	06/ Permission is granted subject to the recommendations of the CEA.
۷.	Grinding & Rice Mills	10
vi.	Welding Shops/ Lathe workshops	10
vii.	Electronic Equipment Repair Centers	06/ Permission is granted subject to the recommendations of the CEA.
Utility Serv	vices	
i.	Railway and Bus Terminals	Decisions are made subject
		to the recommendations of
		the relevant institutions
Public Ope	en Spaces & Recreation Facilities	
i.	Pocket Park	
ii.	Mini Park	
iii.	Local Par	
iv.	Community Park	Depends on the project
٧.	Town Park	
vi.	Central Urban Park/City Park	
vii.	Regional Park	
viii.	Linear Park	
ix.	Indoor Sports Complexes	40
х.	Theaters	40
xi.	Clubs	20
xii.	Art Galleries / Museums	20
xiii.	Open Air Theaters	Depends on the project

The definitions for all these uses are given in Annex 47.

8.6 Low Density Residential Zone

8.6.1. Zonning Guidelines and Permissible Uses for Low Density Residential Zone

Table 8.11 Low Density Residentioal Zoning Guidelines

(a.)	Zoning Definition	It is expected to maintain low density development of residential land use as an
		adjacent zone to the Sacred Heritage Zone including Kelani temple while preventing
		the uneven development activities which collapse it Sacred sense.
(b.)	Zone boundaries (Coordinates)	Refer Annexure 46.6
(c.)	Zoning Factor	0.53
(d.)	Approved height limits	The approved height limit is determined by the zone factor.
(e.)	Approved plots coverage's	Residential – 65%
		Non-Residential – 60%
(f.)	General Terms Related to the Zone	Minimum lot size of the land sub division should be as follows,
		Residential - 10 perches
		Apartment – 20 perches
		Kelani river front should be open for the public and if any development activity in an
		adjacent land of Kelani river north bund access roads from Colombo – Biyagama Road
		should be allocated minimum 10 feet for access road.

Source: Planning Team – Gampaha District

Permissible Uses

Table 8.12 Permissible uses in Low Density Residentioal Zone

No	Permissible Uses	Minimum Plot Size (Perches)	Achievable maximum floor
		/ Special	area
Residentia	ıl		
i.	Housing Units	10	
ii.	Hostel	10	
iii.	Quarters	10	
iv.	Child Care Centers	20	
Health			
i.	Medical Centers	10	
ii.	Medical Consulting & Channeling Service	20	
	Centers		According to the shedule 1
iii.	Child and Maternity Clinics	20	
iv.	Veterinary Clinics and Treatment Centers	20	
۷.	Ayurvedic Medical Centers	20	
Education	al		
i.	Pre- Schools	20	
ii.	Primary Schools	198 (0.5 he)	

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	Caraca da na Cale a da	
iii.	Secondary Schools	593 (1.5 he)
iv.	Technical Collages/ Vocational Training Centers.	40
٧.	Research and Development Centers	40
vi.	Private Tuition Classes	20
vii.	Art Centre / Dance Academy	20
Institution	-	
i.	Office	10
ii.	Professional Offices	10
iii.	Banks, Insurance & Financial Institutions	20
iv.	Automated Money Transfer Centers (ATM)	Decisions are made subject to
	5	the recommendations of the
		relevant institutions
Social serv	vices and public amenities	
i.	Community Development Centers	20
ii.	Social and Cultural Centers	20
iii.	Religious centers	80
iv.	Auditoriums and Conference Halls	60
V.	Library	20
v. vi	Crematoriums	40
Commerci		+0
i.	Shops	10
ii.	Supermarkets	20
iii.	Shopping Malls	20
iv.	Restaurants /Cafeterias	10
V.	Open Markets	
v. vi.	Pharmacies	40
vi. vii.		
vii. viii.	Laboratory Services and Collection Centers Wholesale stores	10
		Less than 50 sq.m
ix.	Customer Service Centers	10
X.	Meat and fish stalls	10
xi.	Liquor /Wine Stores	10
xii.	Funeral Hall	20
xiii.	Funeral Hall with Reception Halls	40
xiv.	Hardware Stores	40
XV.	Filling stations	40
xvi.	Filling stations with vehicle service centers	60
xvii.	Filling stations with shopping complexes	60
xviii.	Gas stations & Electric Charging Stations	40
xix.	Communication towers on buildings	10/ Permits are issued under
		Development Regulation No
		19.
xx.	Communication towers	12/ Permits are issued under
		Development Regulation No
		19.
xxi.	Multi-storied Vehicle Park	20
xxii.	Open Vehicle Park	40
xxiii.	Vehicle Showrooms	20
Tourism		
i.	Resorts	40
		-T

ii.	Guest Houses	10
iii.		
	Lodges	20
iv.	City Hotel	20
V.	Tourist Information Centers	10
vi.	Ayurvedic Panchakarma Center	20
	uring industry	
i.	Clay products industries	20
ii.	Natural fiber-based manufacturing industries	20
iii.	Homestead Industries	10
Service In	dustries	
i.	Vehicle Service Centers	20
ii.	Taxi Service Centers	20
iii.	Laundries	10
iv.	Grinding & Rice Mills	10
V	Electronic Equipment Repair Centers	10
Utility Se		
i.	Railway and Bus Terminals	Depends on the project
Public Op	en Spaces & Recreation Facilities	
i.	Pocket Park	
ii.	Mini Park	
iii.	Local Park	
iv.	Community Park	Depends on the project
٧.	Town Park	
vi.	Central Urban Park/City Park	
vii.	Regional Park	
viii.	Linear Park	
ix.	Indoor Sports Complexes	40
х.	Theaters	40
xi.	Art Galleries / Museums	20
xii.	Open Air Theaters	Depends on the project
Agricultu		,
i.	Livestock/ Agricultural farms with	40
	construction	

The definitions for all these uses are given in Annex 47.

8.7. Low Density Sacred Heritage Zone

8.7.1. Zonning Guidelines and Permissible Uses for Low Density Sacred Heritage Zone

Table 8.13 Low Density Sacred Heritage Zoning Gudelines

(a.)	Zoning Definition	It is expected to established the heritage sacred sense beyond the Kelani	
		Temple with low density development. Approximately 500m radius from	
		the Kelani Temple is expected to develop as emerged the sacred and	
		heritage sense with their uniqueness.	
(b.)	Zone boundaries (Coordinates)	Refer Annexure 46.7	
(c.)	Zoning Factor	0.57	
(d.)	Approved height limits	Maximum height is 12.5m.	
(e.)	Approved plots coverage's	Residential – 65%	
		Non-Residential – 80%	
(f.)	General Terms Related to the Zone	Minimum height from both calculated from zone factor and 12.5m of	
		maximum height should be consider as the maximum height of the	
		proposed development.	
		Minimum lot size of the new land sub-division is 10 perches and existing	
		minimum lot size of residential land sub-division is 6 perches.	
		Construction of boundary wall is not allowed and permission will be granted	
		only for the transparent fence.	
		Colouring of building should be white of white mixed light colours.	
		Permission will not be granted for the construction of new religious	
		buildings and adding structures for existing religious building except	
		Kelaniya Rajamaha Viharaya.	
		Kelani river front should be open for the public and if any development	
		activity in an adjacent land of Kelani river north bund access roads from	
		Colombo – Biyagama Road should be allocated minimum 10 feet for access	
		road.	
		Sign boards and advertisements should compatible to the sacred area and it	
		could be done under the permission of local authorities.	

Permissible uses

No	Permissible Uses	Minimum Plot Size (Perches) /	Achievable maximum floor
	Permissible uses	Special	area
Residential			
i.	Housing Units	10	
ii.	Hostel	Hostel for pilgrims (Rest house – less	
		than 5 rooms / temporary Lodges)	
iii.	Adult / Disabled Homes	20	
iv.	Children's Home	20	
V.	Child Care Centers	20	
Health			
i.	Medical Centers	10	
ii.	Medical Consulting & Channeling	20	
	Service Centers		
iii.	Child and Maternity Clinics	20	
iv.	Veterinary Clinics and Treatment	20	
	Centers		
٧.	Ayurvedic Medical Centers	20	
Educational			
i.	Early Childhood Development Centers	20	
ii.	Primary Education Centers	198 p (0.5 he.)	
iii.	Secondary Education Centers	593 p (1.5 he.)	According to the shedule 1
iv.	Art Centre / Dance Academy	20	
Institutional			
i.	Office	10	
ii.	Office Complex	10	
iii.	Banks, Insurance & Financial	20	
	Institutions		
iv.	Automated Money Transfer Centers	Decisions are made subject to the	
	(ATM)	recommendations of the relevant	
		institutions	
Social services and			
i.	Community Development Centers	20	
ii.	Social and Cultural Centers	20	
iii.	Religious centers	Permission to upgrade the Kelaniya	
		Raja Maha Viharaya and related uses.	
iv.	Auditoriums and Conference Halls	60	
V.	Library	20	
Commercial			
i.	Shops	10	
ii.	Supermarkets	20	
iii.	Restaurants /Cafeterias	10	
iv.	Open Markets	10	
V	Pharmacies	10	
vi.	Laboratory Services and Collection	20	
	Centers		
vii.	Customer Service Centers	10	
viii.	Funeral Hall	20	
ix.	Hardware Stores	40	
х	Filling stations	40	
xi.	Filling stations with shopping	60	
	complexes		

Table 8.14 Permissible uses in Low Density Sacred Heritagel Zone

xii.	Gas stations & Electric Charging	60
AII.	Stations	
xiii.	Multi-storied Vehicle Park	20
xiv.	Open Vehicle Park	40
Tourism		· ·
i.	Resorts	40
ii.	Guest Houses	10
iii.	Tourist Hotels	40
iv.	City Hotel	20
V.	Tourist Information Centers	10
vi.	Ayurvedic Panchakarma Center	20
Manufacturing industry		
i.	Clay products industries	20
ii.	Natural fiber-based manufacturing	40
	industries	
iii.	Homestead Industries	10
Service Industries	· · · · · · · · · · · · · · · · · · ·	
i.	Vehicle Service Centers	20
ii.	Taxi Service Centers	20
iii.	Laundries	10
iv.	Grinding & Rice Mills	10
٧.	Electronic Equipment Repair Centers	10
Utility Services		
i.	Railway and Bus Terminals	Depends on the project
Public Open Spaces & Rec		
i	Pocket Park	
ii.	Mini Park	
iii.	Local Park	
iv.	Community Park	Depends on the project
٧.	Town Park	
vi.	Central Urban Park/City Park	
vii.	Regional Park	
viii.	Linear Park	
ix.	Art Galleries / Museums	
Х.	Open Air Theaters	
Agricultural		
i.	Livestock/ Agricultural farms with	40
	construction	

The definitions for all these uses are given in Annex 47.

8.8 Special Eco Conservation Zone

8.8.1. Zonning Guidelines and Permissible Uses for Special Eco Conservation Zone

Table 8.15 Special Eco Conservation Zoning Guidelines

(a.)	Zoning Definition	It is expected to develop Kelani river north bund reservation area as a Socio-Cultural Riverscape that may improve the sacred sense of Kelaniya sacred area and maintaining this area as a flood mitigation measure while protecting it as a natural environment which promote outdoor recreation activities.
(b.)	Zone boundaries (Coordinates)	Refer Annexure 46.8
(c.)	Zoning Factor	0.15 (Zone factor is not applicable)
(d.)	Approved height limits	-
(e.)	Approved plots coverage's	-
(f.)	General Terms Related to	Permission will not be granted for any new constructions.
	the Zone	Permission will be granted only for repairing existing buildings.
		Permission will be granted for outdoor recreation activities (Walking tracks/ Linear
		parks/ Boat Jetties/ Boat anchoring/ safe bathing places/ Mobile food stalls)
		Permission will be granted only for the existing licensed sand mining.
		Permission will be granted for constructing river protective walls.
		Permission will be granted for construction related to water transportation.
		Construction of boundary wall is not allowed and permission will be granted only for
		the transparent fence which compatible to the natural environment.
		Permission will be granted to develop the public infrastructures.
		The recommendation of the relevant institutions should be obtained before the any
		development activity.
		Irrigation Department
		Central Environmental Authority

Permissible uses

Table 8.16 Permissible uses in Special Eco Conservation Zone

No	Permissible Uses		
Tourism			
i	Cabana Hotels		
Leisure and Re	creational Services		
ii.	Pocket Park		
iii.	Mini Park		
iv.	Local Park		
٧.	Community Park	According to the 108reatmen 1	
vi.	Town Park	According to the 198reatmen 1	
vii.	Central Urban Park/City Park		
viii.	Regional Park		
ix.	Linear Park		
х.	Open Air Theaters		
xi.	Boat Jetty / Anchoring		
xii.	Safe bathing places		
Agricultural			
i.	Permission is given for the renewal of existing inland fishing areas	According to the 198reatmen 1	

Source: Planning Team – Gampaha District,2021

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The definitions for all these uses are given in Annex 47.

8.9 Wetland Nature Conservation Zone

This zone includes wetlands with high biodiversity and areas that need to be classified as wetland and water retention and drainage areas for flood risk reduction and control.

8.9.1 Guidelines & Permissible Uses for Wetland Nature Conservation Zone

Table 8.17 Guidelines & Permissible Uses in Wetland Nature Conservation Zone

	GPS coordinates relevant to the Kelaniya PS area mentioned in Western Province
Zone boundaries (Coordinates)	Wetland Zoning Plan.
Flood storage capacity	Shall be maintained in accordance with a Master Plan approved by the SLLR & DC
	and where relevant, the ID as well
Minimum plot size for the purpose of any	4 ha (10 acres)
building construction.	In smaller plots the permitted uses are the same but no buildings shall be allowed.
Maximum area where filling permitted.	2% of the site area (if needed for roads, vehicle parking, toilets and sewage
	disposal/treatment required for site management).
Maximum plot coverage (area covered by	1% of the total project area; all buildings on stilts excepting toilets, which may be
buildings).	on filled land.
Maximum permitted ground floor area of an	100 sq. m.
individual building.	100 sq. m.
	7 m from the natural ground level (except in the case of a few look-out
Maximum permitted building height.	posts/observation towers/tower hides which are compatible with the overall
	concept)
Building type.	All buildings except toilets shall be on stilts in wetland (not filled area). They shall
	be isolated or in aesthetically pleasing clusters, with visually compatible, attractive
	"roof-scapes". They shall not block views of the open area from adjoining public
	roads and other public areas and they should be environmentally friendly.
Sub-division	Not permitted
	Boundary walls not permitted. Visually compatible boundary fencing which does
	not hamper storm water flow may be permitted only along the boundary with
Boundary demarcation.	adjoining existing high land. Any other boundaries may be demarcated only by
	visually compatible boundary markers at minimum intervals of 10m. Both the
	above will be subject to approval of the UDA, on a site-specific basis.
Relaxation of above conditions in exceptional	In the rare event of having to accommodate a vital public infrastructure project,
cases.	the above conditions may be relaxed.
Lasts.	

Source: Planning Team – Gampaha District,2021

All buildings shall be on stilts in wetlands All other activities prohibited

Table 8.18 Permissible Uses in Wetland Nature Conservation Zone

Permitted Uses	Wetlands Nature Parks
	Eco-friendly Restaurants- 1200 sq.ft.(on still)
	• Mini Conference Centers – (on still) -1500 sq.ft.
	Seating Capacity – 75,
	Stage– 30'« 50'
	Outdoor fitness/exercise facilities
	 Wetland museums – sq.ft. 1000 (on still)
	Cabanas – (on still)
	Dry weather Playgrounds
	Traditional Fishing
	Flower collection
	Water-transport
	National infrastructure projects
	 New Irrigation constructions /flood protection structures.
	Educational & Research activities.

Source: Planning Team – Gampaha District,2021

8.10 Paddy Cultivation & Wetland Agriculture Zone

This area includes the existing cultivated paddy fields, abandoned paddy fields and associated areas such as Deniyaya and Ovita.

Permitted Uses	• Only permitted activities in accordance with the Agrarian Development Act can
	be done in the Subsidiary areas such as the existing cultivated paddy fields and
	abandoned paddy fields and the adjoining areas such as Deniyaya and Ovita.
	Wetland Agriculture industry
	Arboriculture
	• Mining in accordance with (GS & MB) and CEA guidelines, conditions and
	Guidelines, including irregular site rehabilitation (Clay Pits and Soil mining)
	Environment friendly aquaculture ponds
	All other activities & any other construction are prohibited

Table 8.19 Permissible Uses in Paddy Cultivation & Wetland Agriculture Zone

Source: Planning Team – Gampaha District, 2021

Table 8.20 Conditions subject to the implementation of approved uses in the above zones

Zone boundaries	GPS coordinates relevant to the Kelaniya PS area mentioned in Western Province Wetland Zoning Plan.
(Coordinates)	
(a)	In the rare case where it is necessary to implement an important common infrastructure project, the above
	conditions can be relaxed. (Maximum Permitted Infrastructure Projects – Electricity, Water Supply, Telephone,
	Highways, Railways etc.)
(b)	Approval for the proposed development work subject to the recommendations of the organization mentioned in
	the schedule before obtaining clear certificates for other development activities as the pattern of land use in the
	wetlands may change according to the new program of re-cultivation of abandoned paddy lands under the new
	program of creating a people centered economy in the "Vision of Prosperity" policy statement for the year 2019.
l	Survey Plan should be considered to determine the boundaries before approving the proposed development
	activities in the vicinity of a wetland or in the presence of highland areas in a wetland.
(d)	According to wetland aggregation, a distance of about 20m from the boundary of a wetland zone belongs to the
	approximate wetland zone and must be implemented in accordance with the relevant laws, Guidelines and
	approved practices in that zone (to avoid existing erroneous conditions in determining location according to the
	geographical location system).
N.B.	
(a) Additior	al work site special status of institutions such as the Central Environmental Authority, Sri Lanka Land
	ment Corporation, UDA, Agrarian Services Development Department and Department of Irrigation, for "specific
-	"under the Environment Act when required.
	n of the above conditions in the development of any wetland may result in legal action under the powers vested
	cheduled Castes.

Source: Planning Team – Gampaha District,2021





Proposed Road Width, Building Line and Reservations

Chapter 09

Proposed Road Width, Building Line and Reservations 9.1 Building Line and Reservation

This will focus on the building limits and reservation applicable to the Kelaniya PS area. Accordingly, proposed wetland zoning plan, river and canal reservations, and also Expressway and railway reservation, building limits which are affected by development are considered.

9.1.1. Road Width, Reservations & Building Line

According to the Kelaniya Development Plan, the proposed road width has been allocated for the identified roads based on the priority levels.

Table 9.1 Road Widths & Building Line Reservation for RDA, PRDA & Local Authority Roads

Road Hiera	rchy	Road	Proposed Width (M)	Building Line
1st Priority	r Road	Colombo Kandy Road (Peliyagoda to Mahara 6 Km)	 Total Width -30m (Four lane road with the center island of LRT service corridor, parking & bicycle lane & side walk with landscaping & utility service lines. Total width of the road will be 30 meters.) 	15 meters (50ft from the centre line)
2nd Priority Road	'A' Category 'B' Category	Colombo – Biyagama Road (B 214) Proposed New Kelani Velley Crescent Road Hunupitiya – Wattala Road (B 151/B 220) Kiribathgoda – Makola Road (B 221) Proposed New Bypass Road from Peliyagoda to Mahara via Wewalduwa, Eriyawetiya.	• Total Width - 30 m (Four lane road with parking & bicycle lane & side walk with landscaping & utility service lines. Total width of the road will be 30 meters.)	15 meters (50 ft from the centre line)

3rd		Hunupitiya Railway Station	 Total Width - 15 m 	
Priority		Access Road	(Two lane road with parking & bicycle	
Road		Kiribathgoda Hospital Access	lane & side walk with landscaping &	
		Road	utility service lines. Total width of the	
		Dalugama – Kelaniya	road will be 15 meters.)	
		Dalugama Wewalduwa Road		
		Dipitigoda HunupitiyaRoad		
		Galborella – Polhena		
	'A' Category	Kiribathgoda – Iriyawatiya Road		
		Kiribathgoda Housing Scheme		
		Road		
		Lumbini Mawatha		
		Pilapitiya- Gonagampala		7.5 meters (25 ft from
		Padiliyathuduwa – Hunupitiya		the centre line)
		Road		
		Waththala thelagapatha		
		Waththala Wanawasala		
		Thorana Junction- Kelani	 Total Width - 15 m 	
		Temple Road	(Two lane road with parking & bicycle	
		(Waragoda Road)	lane & side walk with landscaping &	
	'B' Category	Tire Junction – Kelani Temple	utility service lines. Total width of the	
	D category	Road (Nungamugoda Road)	road will be 15 meters.)	
		Kiribathgoda to Kelani		
		Temple Road via Koholvila		
		(Koholvila Road)		
4th	All other roads	including Pradeshiya Saba (PS)	Roads should be maintaining minimum	
Priority	6m of road wid	th except proposed 1st to 3rd prio	prity roads.	6 meters (20 ft from
Road	 Total Widt 	th - 12 m		the centre line)

Source: Planning Team-Gampaha District Office, 2021

9.2. Proposed Railway and Expressway Reservation

9.2.1 Railway Reservation

The reservation of proposed and existing railway lines and proposed light rail lines shall be in accordance with the Guidelines of the Railway Department.

Construction is not permitted in such reservations and should be maintained as landscaped areas.

9.2.2 Expressway Reservation

The CK Expressway and the, which runs through the Kelaniya PS area, have to maintain a green belt of 10m from the boundary of the RDA reservation as planned.

9.3 Reservations of Canals, River & Reservoirs

Accordance to the gazette of 1662/17 in 14th of July 2010 by Act No.15 of 1968 (Amended Act No 27 of 1976) / Sri Lanka Land Reclamation and Development Corporation (Amendment) Act No 52 of 1982, No. 35 of 2006 that displayed as per the Annexure 34, allocation of reserve area for all the open & closed canals mentioned. Under that reservations related Guidelines all the rivers, tributaries, canals, dams, anicuts & all other natural or artificially created waterways for drainage within Kelaniya PS area should be continue enforced.

Surface width (m)	Reservation from the Canal Bank		
	For open canals (m)	For surface covered canals (m)	
1.0-1.2	1.0	0.3	
1.3-3.0	2.0	1.0	
3.1 - 4.5	2.75	1.0	
4.6-6.0	3.5	1.5	
6.1-9.0	4.5	1.5	
More than 9	6.5	2.0	

Table 9.2 Reservations of Canals. River & Reservoirs

- I. 100m of buffer zone from Kelani River bank should be reserved as a Kelani River Reservation area. It consists of two sections, 40 M and 60 M, and no new construction is permitted within that 40 M buffer zone. Permission will be granted only for the constructions within 60m buffer considering environmental compatibility.
- II. Above I is not applicable for the proposed Eco-Conservation zone in the area of Kelani river north bund and its Guidelines are enforced for that zone.
- III. Recommended conservation zones should be allocated according to the width of all canals in the area and are on ly approved for vegetation extension as green reserves.

Note

- I. When approving land subdivisions, this 10-M reserve boundary should be marked on the Survey Plan.
- II. Disposal of garbage should accordance with the relevant Local Authority and permission will not granted for such waste disposal within ½ kilometres buffer from the expressway.
- III. The areas operate under the National Wildlife Conservation Department, Sri Lanka Land Reclamation and Development Corporation, Central Environmental Authority, Irrigation Department and other government agencies should accordance with the provisions and Guidelines of such organizations.
- IV. The waterways and drainage areas of the area should not be blocked. Local authorities can take legal action against such persons



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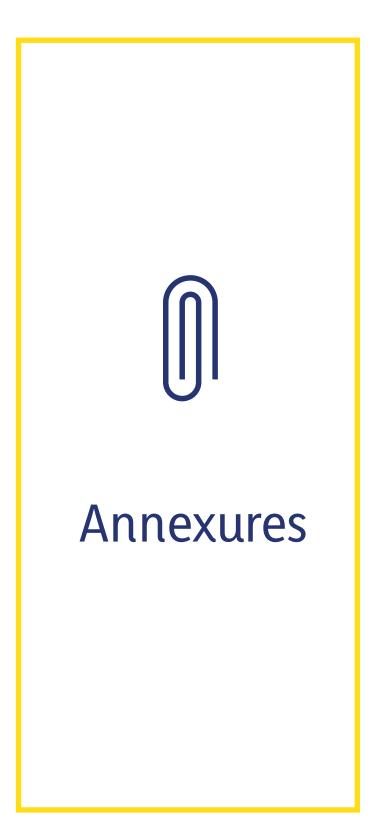
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Annexure 01. Main Consultative Institutions

Institution / Department	Designation/ Name
Kelani Temple	Chief Incumbent, Professor Kollupitiye Mahinda Sangarakkhita Thera
National Physical Planning Department	Plnr. A.O. Vijayawardhana Plnr. A.D. Chamila
Road Development Authority	Eng. A.N. Lokuge
Road Development Authority	Dept. Director (Highway Maintainance)
Sri Lanka Land Reclamation & Development Corporation	Civil Eng. D. Jayarathne
Department of Wild Life Conservation	Dept. Director Upul Indrajith
Central Environmental Authority	Environment Officer, Tiranthi Ranasinghe
Irrigation Department	Eng. T.D. Vijesuuriya
National Housing Development Authority	District Manager, K.M.G.U. Jalitha
National Water Supply and Drainage Board	Regional Engineer
Electricity Board	Eng. B.S. Madusanka Eng. R.P.G. Wikramarachchi
LECO	Chief Eng./ Branch Manager, M.R Fenando
Archaeological Department	



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(Published by Authority)

PART I : SECTION (I) - GENERAL

Government Notifications

URBAN DEVELOPMENT AUTHORITY ACT, No. 41 OF 1978

The Prescription under Section 3

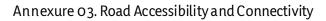
I, Patali Champika Ranawaka, the Minister of Megapolis and Western Development, declare by this prescription by virtue of the powers vested in me by Section 3 of the Urban Development Authority Act, Number 41 of 1978 that as it is my opinion to name and develop the area comprising the 05 Municipal Councils, 07 Urban Councils, and 07 Pradeshiya Sabhas whose exclusive boundaries and borders have been marked clearly and definitely already by the Ministry of Provincial Councils and Local Government, and detailed in Columns I and II of the 1st Schedule here, as the **Core Area of the Metro Colombo Development Region**.

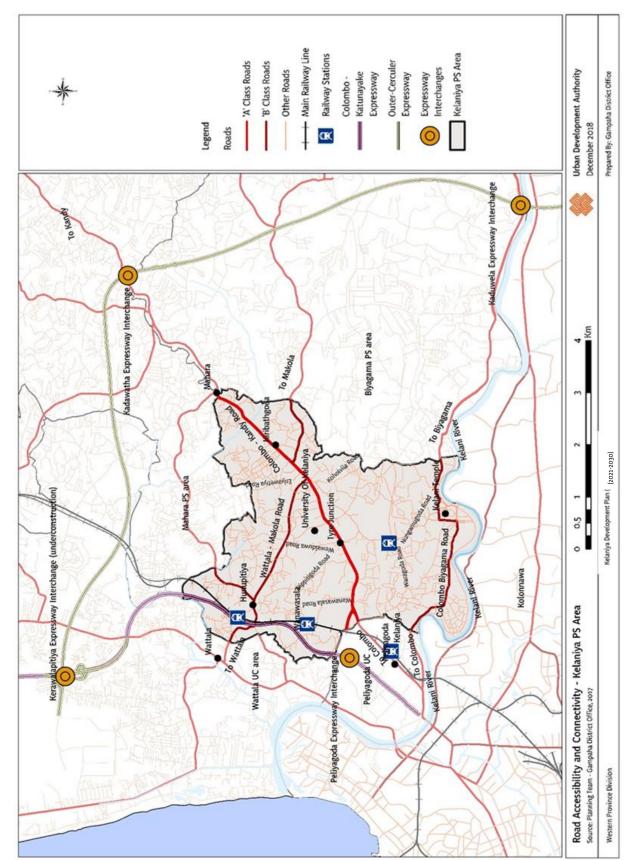
PATALI CHAMPIKA RANAWAKA, Minister of Megapolis and Western Development.

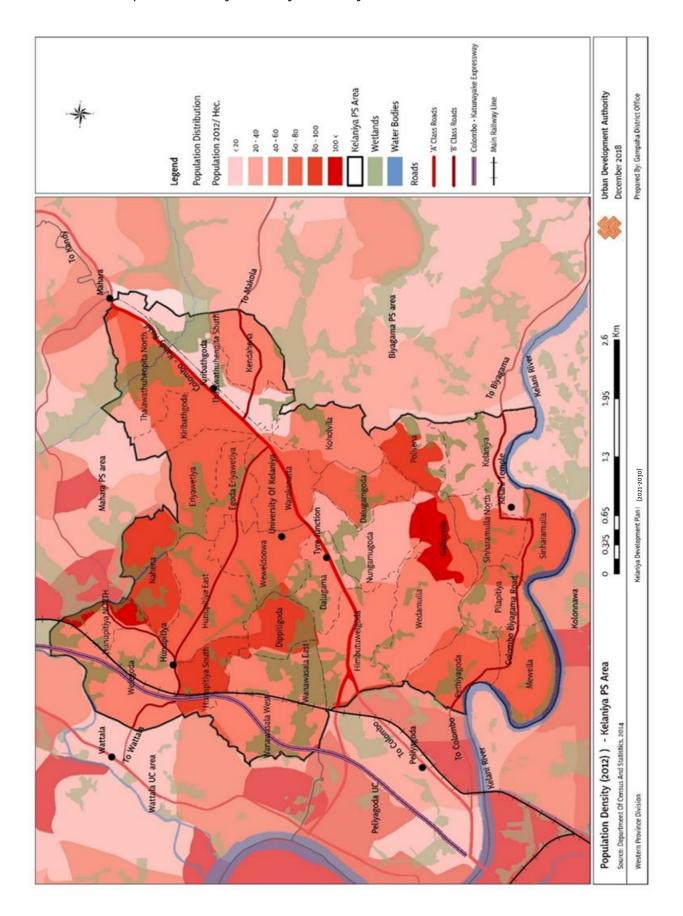
Ministry of Megapolis and Western Development, 17 and 18 Floors, "Suhurupaya", Sri Subuthipura Road, Battaramulla, 08th December 2017.



IA G 26765—57 (12/2017) This Gazette Extraordinary can be downloaded from www.documents.gov.lk

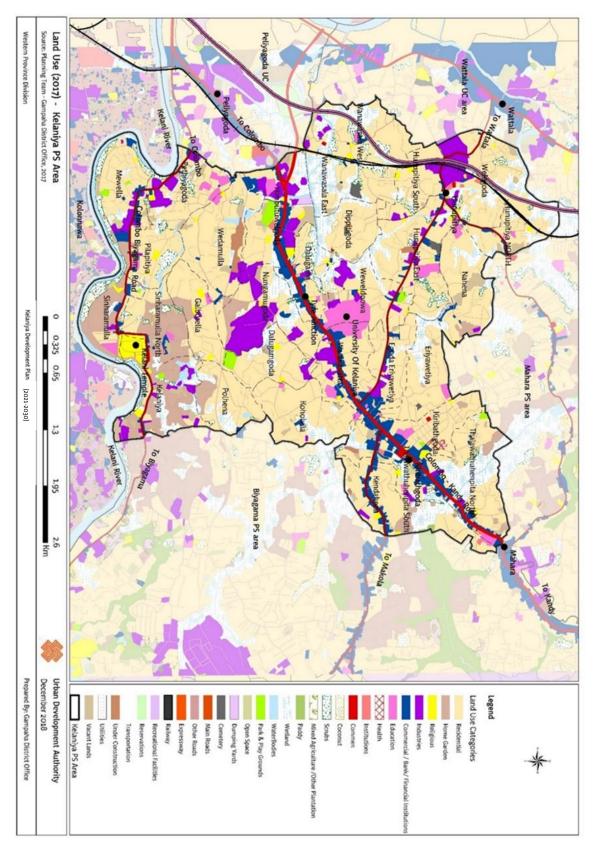


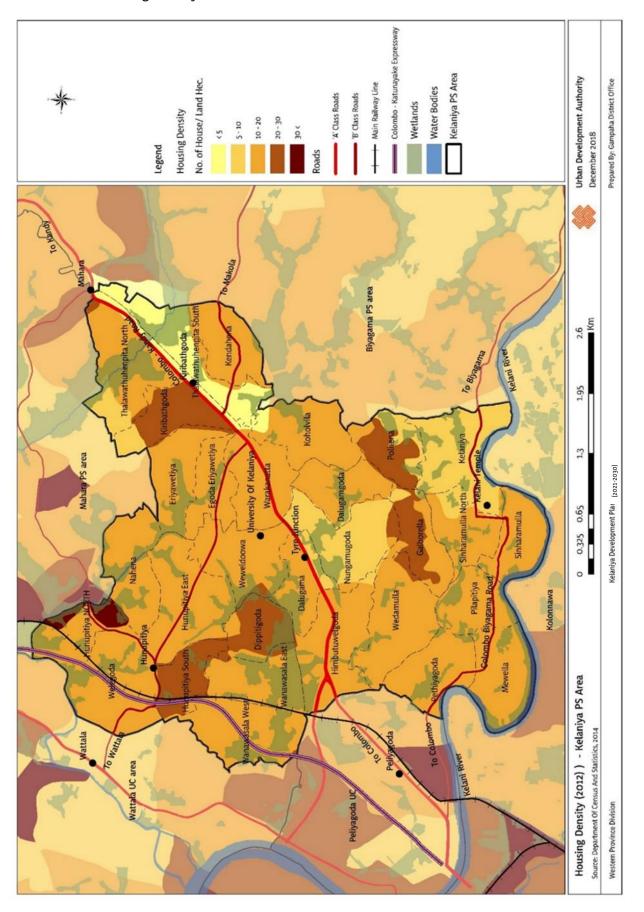




Annexure 04. Population Density in Kelaniya Pradhesiya Sabha Area

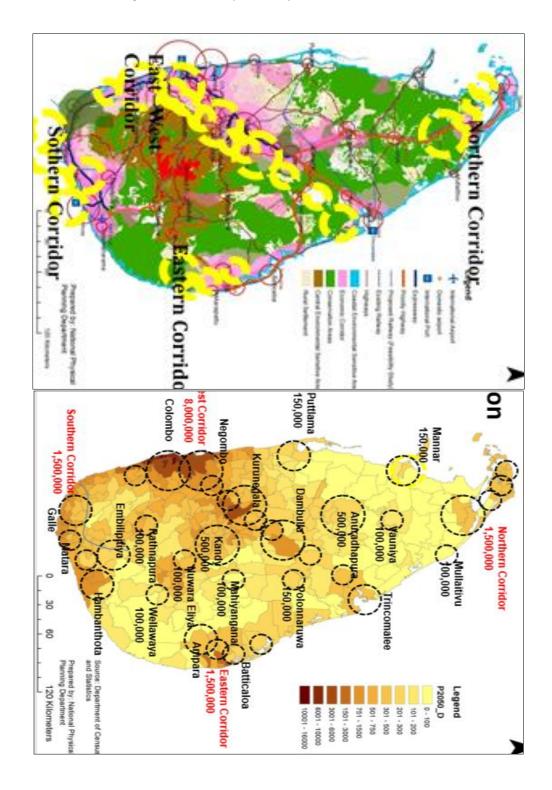
Annexure 05. Landuse-2017



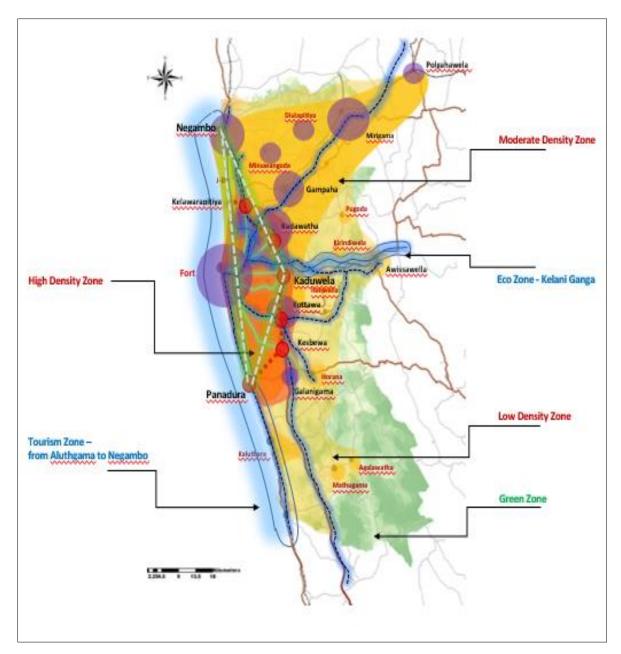


Annexure 06. Housing Density-2011

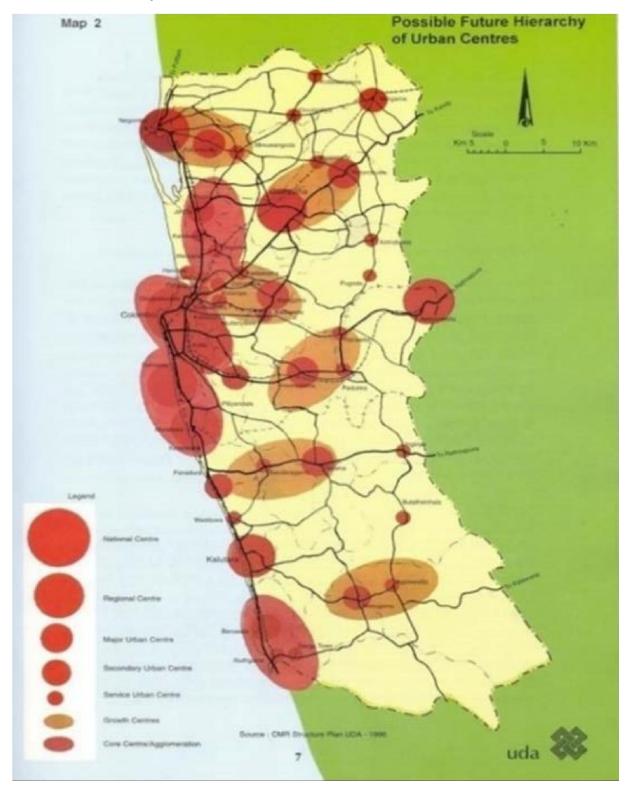
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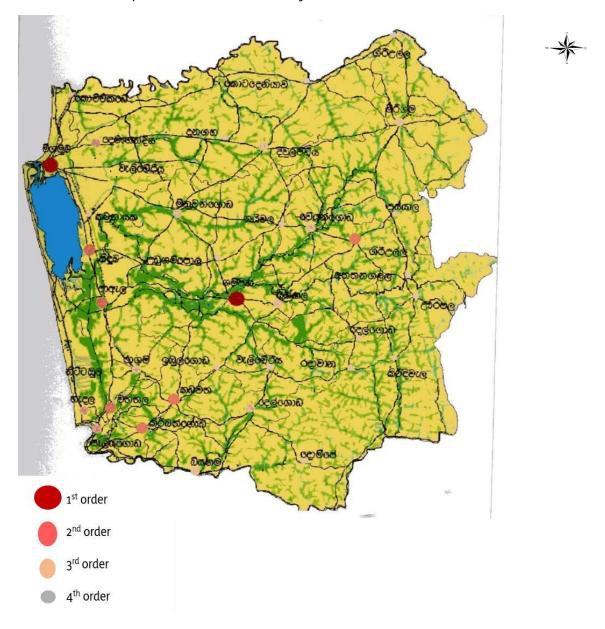
Annexure 07. National Physical Plan – Proposed Population – 2050



Annexure 08. Western Province Structural Plan – 2030

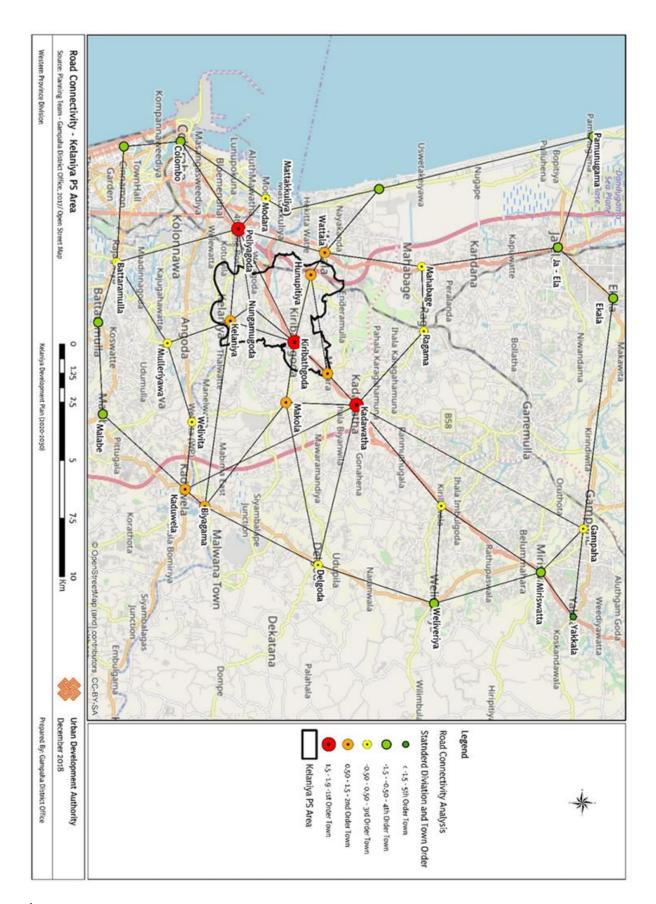


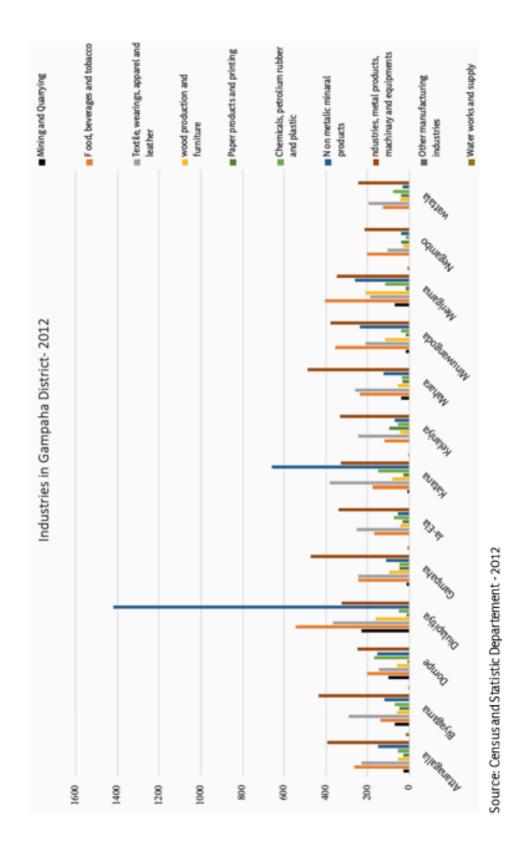
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Annexure 10. Gampaha District Town Hierarchy

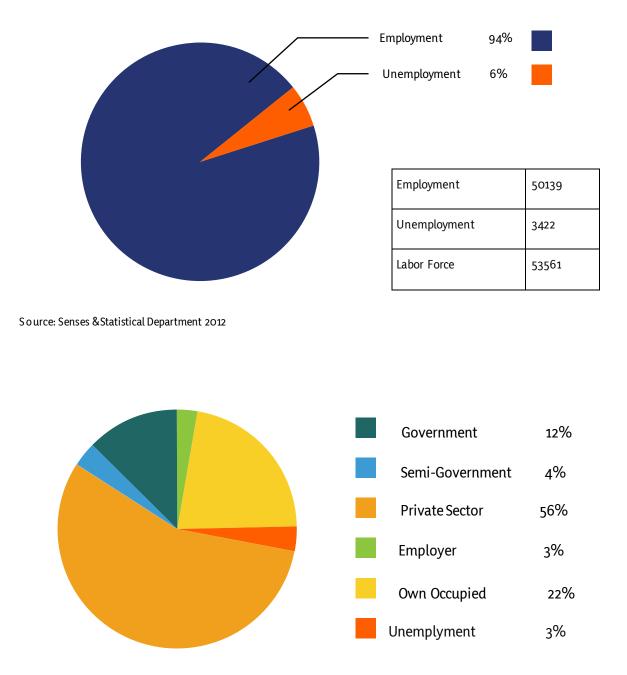
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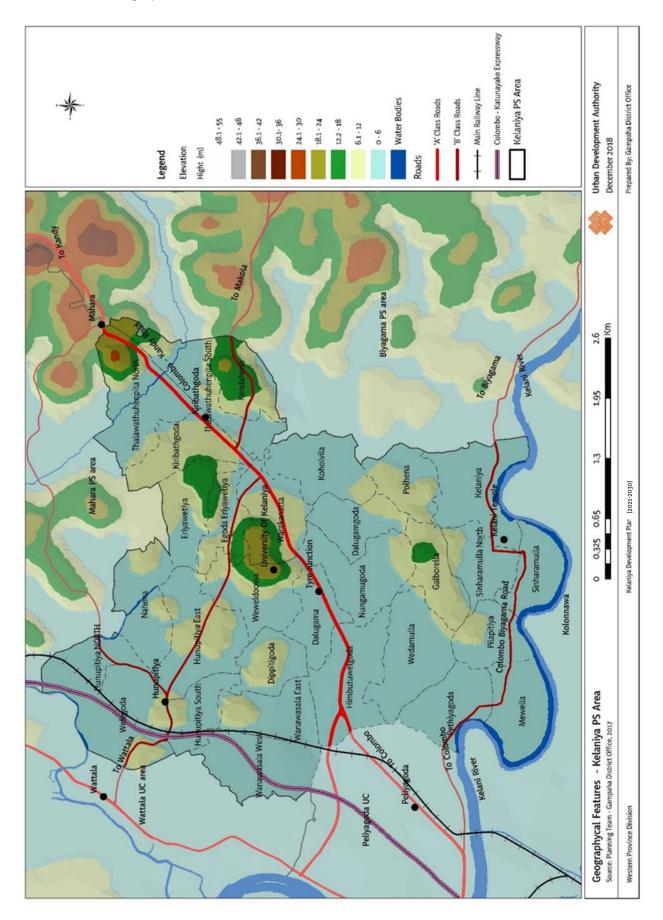


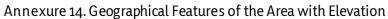
Annexure 12. Industrial expansion in the Gampaha District – 2012

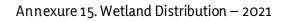
Annexure 13. Employment rate

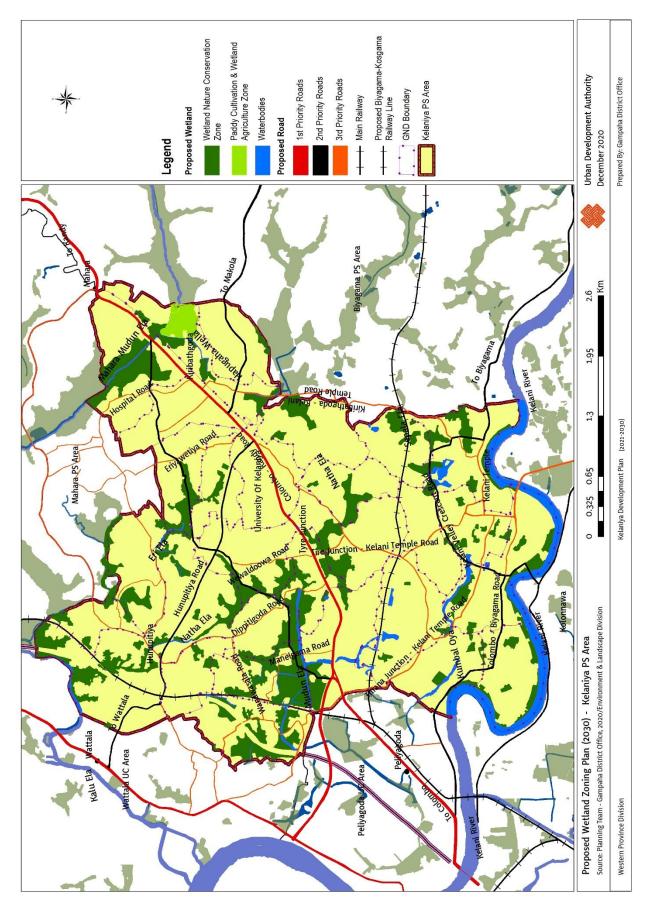


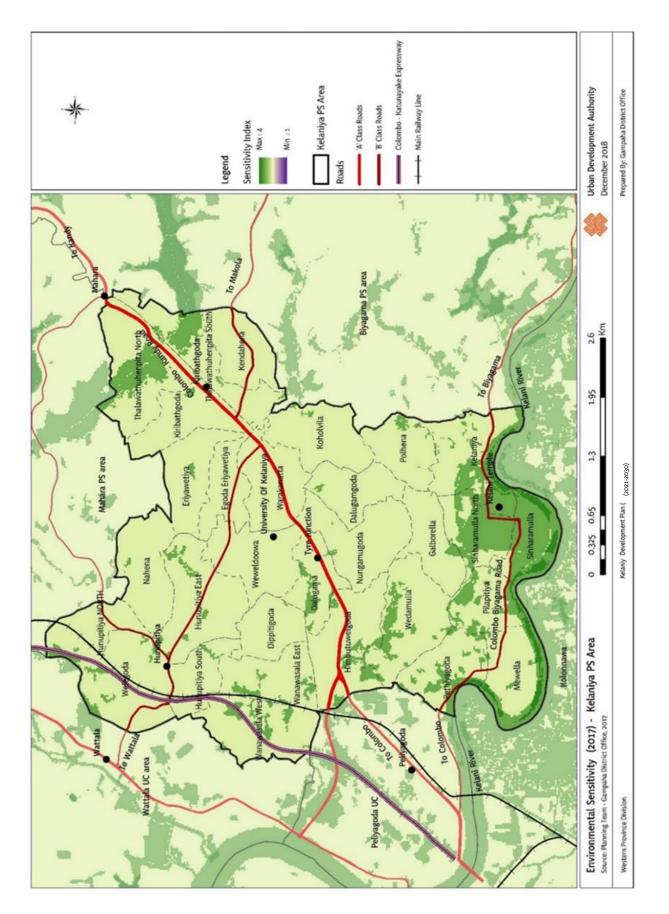
Source: Senses & Statistical Department 2012



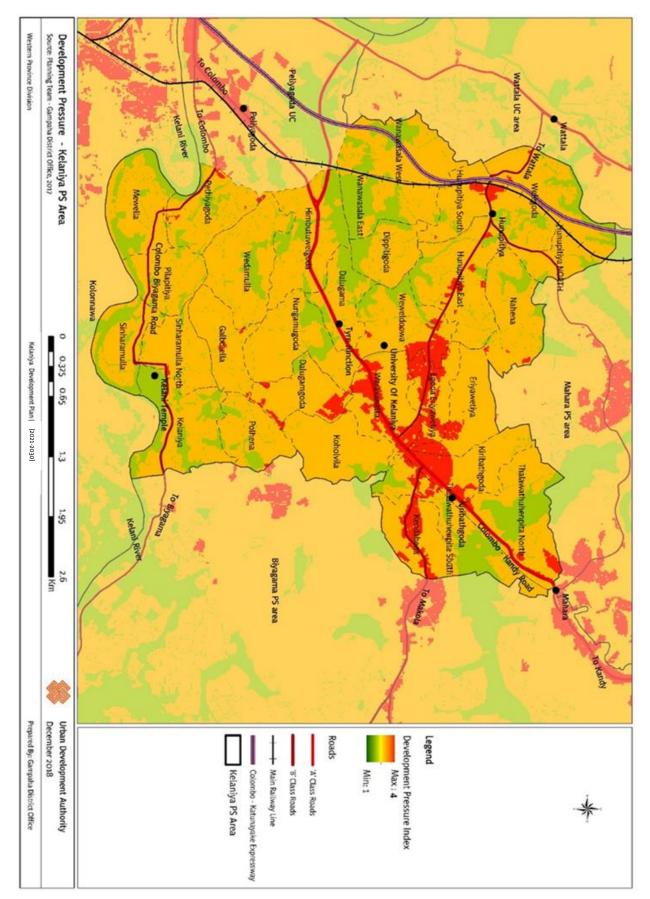








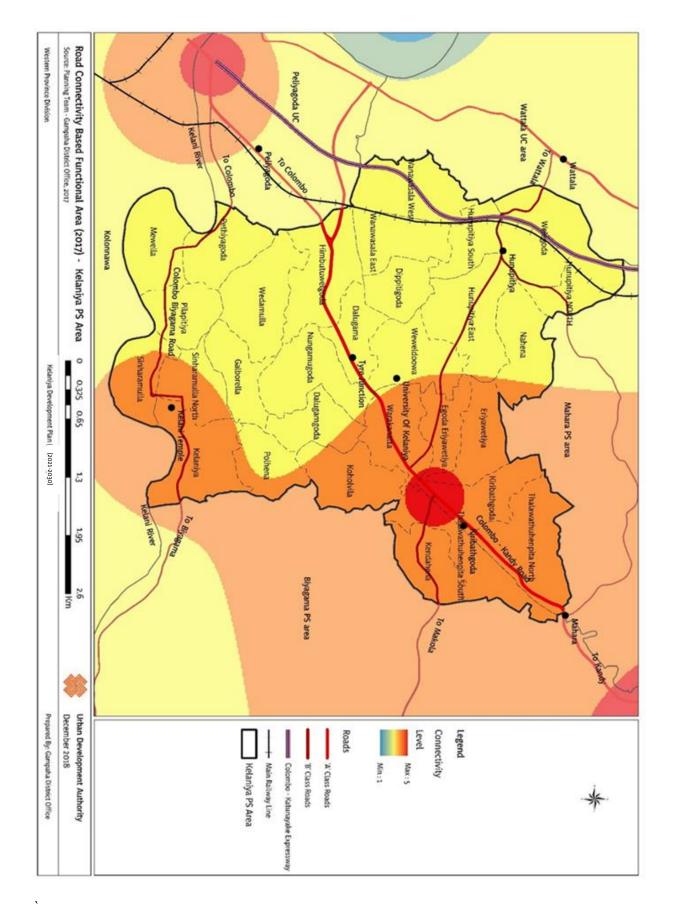
Annexture 17. Development Pressure



Development Pressure Index

Basic Factors	Weight		Value	Grade
Accessibility Index	15%			
Main Roads (A class)	-	A & B class roads / railway		5
		C class r	C class roads	
Other roads (B &C Class)	-	D class r	oads	3
		E class r	oads	2
PS Road	-	F class r	oads	1
Connectivity Index (IDW)	25%	(Std Dev)	5-1
Population Index	30%			
		Popula	4.98 - 32.41	1
Population Density	50%	tion	32.4-40.206	2
		Densit	40.206 - 67.64	3
		у	67.64 - 164.28	4
			164.28 - 504.71	5
Population	50%	Popula	(-15.59) – (-3.75)	1
Growth		tion	(-3.75) – (-2.00)	2
		Chang	(-2.00) – 0	3
		e	1.504 - 3.25	4
			3.25 - 6.68	5
		(2011-		
		2001)		
Landuse Index	30%			
Landuse Categories	50%		Commercial	5
			Hotel and tourism	4
			Fishing	3
			Education	3
			Health	3
			Residential / Home garden	3
			Agriculture	2
			Forest/ Wetland / Water Bodies	1
Buildings			·	
	50%			5-1





Annexure 19. Stakeholders' Views and Suggestions

Group 01 – Commercial and Industries

- 1. Widening the road from Eeriyawetiya junction to Nimali Film hall to minimize traffic congestion.
- 2. Adding additional lands to increase the town area of the Kiribathgoda
 - Paddy behind the Lanka Pharmacy
 - Paddy behind the Keels Super Market
- 3. Connect Pradhesiya Sabha owned dry fish shops area and space along the Ela to Makola Road.
- 4. Create Parallel roads to the Kandy- Colombo road
 - Close to Laksala
 - Near the Glass Frame Shop and Gama
- 4. Create 8 stored shopping complex with all facilities in Kiribathgoda public fair land (Car parks, post offices, state banks, cinemas, lecture halls, children's parks etc.)
- 5. Maintaining and developing the Existing vacant land in Kiribathgoda (Near the Kiribathgoda old bus stand).
 - Pandora Exhibition
 - Outdoor Public meetings
 - Musicale show
- 6. Facilitate pedestrian crossings with tunnels or flyovers in main Kandy Colombo road.
 - Shopping complex to YMBA
 - Koswatta road to Eriyawatiya Junction
- 7. Construction of a complete toilet system in Kiribathgoda town center
- 8. To maintain and register a limited number of three wheelers (2 or 3) in suitable places and introduce sticker to identify the three-wheel owner.
- 9. Provide suitable places for traditional Clay industry in Kelaniya area.
- 10. To develop industries through modern technological knowledge and equipment.
 - Connecting to the tourism industry.
 - Improving the handicraft industry.
 - Providing industrial village and common amenities.
 - 11. Create two Retirement Resorts closer to the Kelaniya secret area.
 - 12. Establishing a Pedestrian bridge from bus stand to Kelaniya temple.
 - 13. Establishment of a petrol station at Kelaniya temple premises.
 - 14. Establishing a library with facilities.
 - 15. Construction of a commercial building at Kelaniya PS owned land.
 - 16. Establishment of industries on both sides of Hunupitiya New Road.
 - Packing the cement.

- Garment industry
- Construction of shopping complex in PS owned land in Thorana Junction. (About 3 stories)
- Establishing a male school inside the city.
- Establishment of private hospitals in urban areas.

Group 02 – services and Infrastructure Facilities

- 1. Planning the land accurately
 - To control flood level at ground level
 - Zoning the homes, industries, services and landscapes correctly

2. Education

- Discuss with the provincial and Government Ministries about the schools which need to be develop and identify them
- 3. Health
 - Convert Kiribathgoda base hospital into the national hospital.
 - The need of a private hospital with the all facilities
 - Establish Wastewater treatment system
 - Development of exercise areas in suitable places to prevent non-infectious diseases
- 4. Housing
 - Construction of apartment complexes as a response to housing demand flood, and unauthorized residents.
- 5. Roads
 - Solution for existing traffic condition,
 - Mahara Junction Dalupitiya road- New Hunupitiya road Wewalduwa road Tayer cooperation Junction
 - Old Kandy road development, Alternative road development
 - Allocate pedestrian service lain for tunnel road systems in Kiribathgoda, University, Thorana Junction. -

Electricity, water, petroleum, telecommunication.

- Construct Commercial complex with parking facilities.
- Establishment of an Intercity Public Transport Service
- 6. Service Institutes Develop the Electricity & Telecommunication according to the future plans
- 7. Waste Management
 - Informed people to separate waste
 - Adhering to a proper management system

Group 03 – Environmental and Historical

1. Preservation of religious and environmental conditions based on Kelaniya Raja Maha Viharaya.

Problems

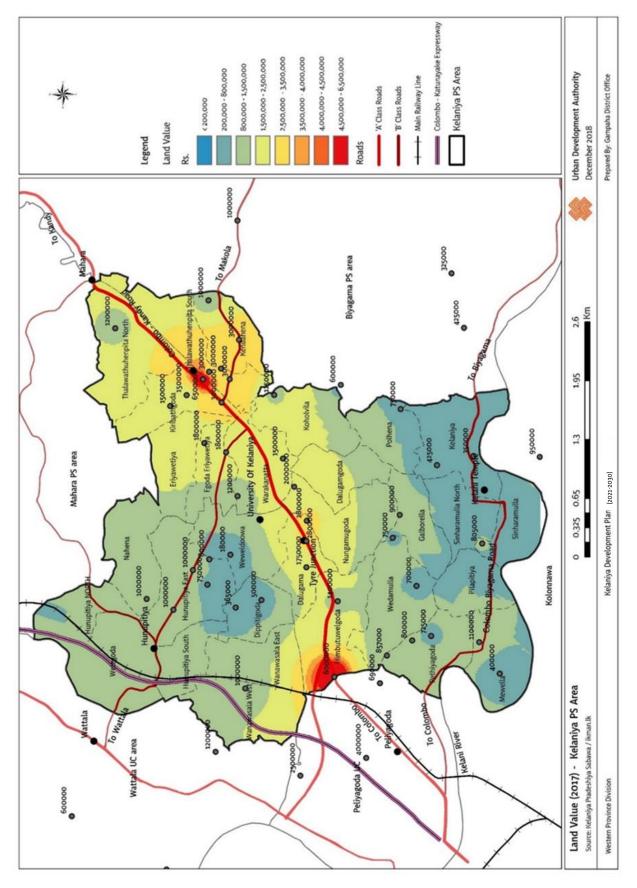
- Noise, conjunction and smoke inside the secret area.
- Unauthorized construction in the secret area Merchandise and beggars, common place, trade stalls, bus stops
- Construction which are damage to the secret sense of the Viharaya meat shops, fish stalls, restaurants, high buildings, lodges, clubs.
- Lack of accommodation for local and foreign devotees.
- Environmental imbalance, pollution
- Cultivation lands (paddy fields) could not be used
- Rectification of irrigation system / failure to implement
- Illegal constructions of the river reserve
- Canal reserve / low ground blocked
- Poor infrastructure in the region
- Waste, wastewater, lack of proper exclusion
- Destroy tide control methods
- Overflow
- Destruction of wildlife habitats.
- Human, wildlife and conflict.

Proposals

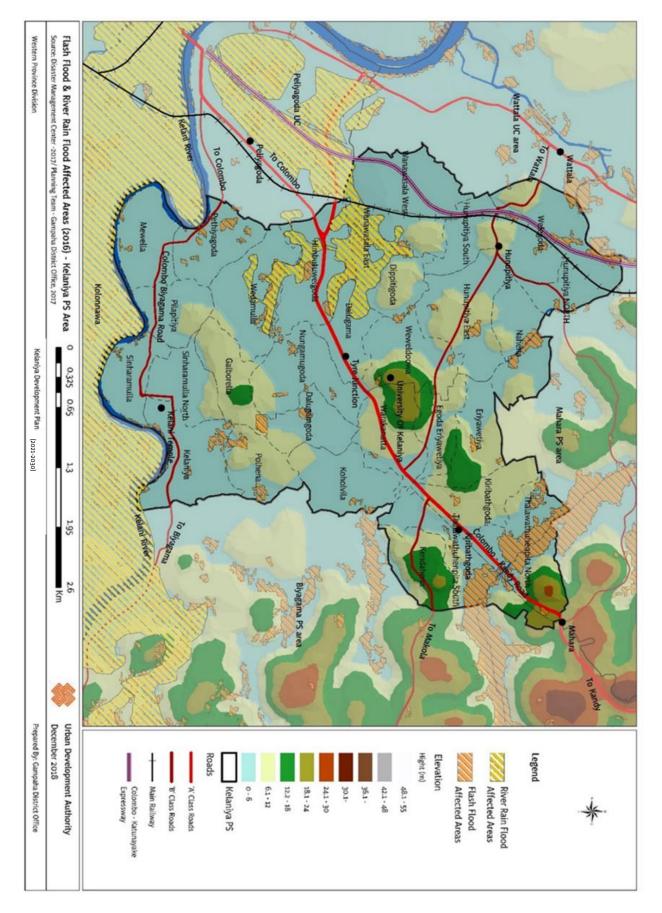
- 1. Established "One way" system around the roads in Kelni Viharaya.
- 2. Shift the activities which are disturb to the secret sense of the temple.
- 3. Restriction for building heights (less than the Pagoda)
- 4. Rehabilitation of existing buildings and construction of a new Pilgrims Rest
- 5. Enhance the environmental balance and reduce pollution.
- 6. Establishment of a crop land regeneration system in partnership
- 7. Reconstruction of irrigation
- 8. Removal of Pollutants
- 9. Declaration of River Reserves
- 10. Marking the boundaries of the river boundary
- 11. Removal of unauthorized constructions and Residents
- 12. Removal of low-level blockages and Canal reservation

•

- 13. Planning the infrastructure facilities to fit the future
- 14. Establishment of a common wastewater refinery interconnection station
- 15. Construction and renovation of tidal walls
- 16. Construction of side bends on Kelani River
- 17. Construction of protected baths
- 18. Management of sub care centers properly
- 19. Construction of invasive plants
- 20. Removing telephone poles and electric poles and introducing alternatives
- 21. Cultivation of plants and crops
- 22. Eco tourism promotion



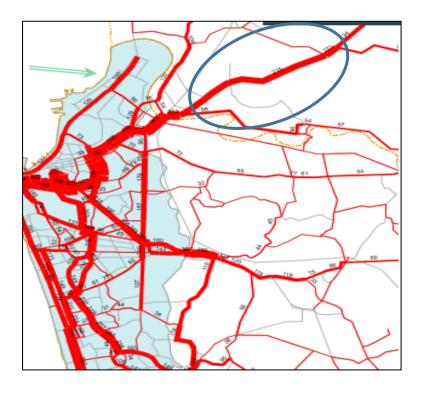
Annexure 20. Land Values



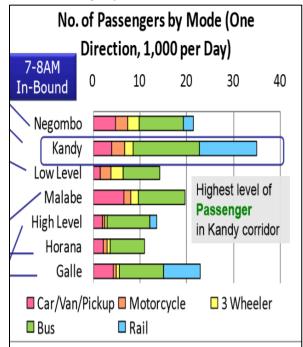


Annexure 22. Kiribathgoda Peak Hour Bus Frequency and Passenger by Mode

• Kiribathgoda Peak Hour Bus Frequency



Number of Passenger by Mode



Source: Com-Trans study report,2014

Annexure 23. Stakeholders' Views on Computer-Related Analysis (Word Cloud Analysis)

Stakeholder meeting regarding this Kelaniya Development Plan was held on 20th November 2017 at Royal Park Hotel in Kiribathgoda. More than 60 of stake holders which was presented to the meeting were divided into three major group as Commercial and Industrial Development, Service and Infrastructure Development, and Cultural, Heritage and Environment Issues, Potentials and proposals which was discussed in those three groups separately pertaining to this area ware further discussed at the meeting together with all three groups. Finally, Computer based Word Cloud Analysis were done for those discussions and analyzed the people perceptions and proposals. It has been expressed as follows.

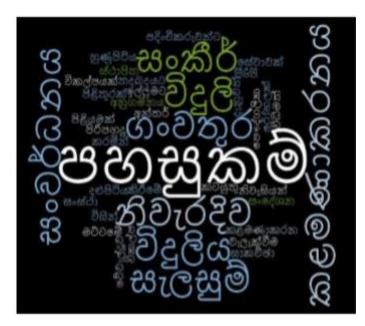
Group 01 – Commercial and Industrial Development

This group has directly focus on the Commercial and Industrial Development of the area. And further discussion was to improve the infrastructure facilities as a magnet for developing Commercial & Industrial uses.



Group 02 - Service and Infrastructure Development

According to the group 02 they have focus on the infrastructure development, mitigation of flash flood and how-to full fill the future need of infrastructure facilities by considering lacking fragments of it and further how to manage it.



Group 03 – Cultural, Heritage and Environment

The focus area was environment protection with culture and heritage further how that should arrange with all facilities. This discussion has round up the session with targeting environment protection.



Overall word cloud emphasized most highlighted areas of the three-brain storming sessions, so this conclude the overall discussion of each groups and through this analysis, thus this stakeholder groups have focused their discussion into 3 major areas.

- 01. Environment Management
- 02. Infrastructure Development
- 03. Heritage conservation



Node Analysis

The base of the Nodes was taken from overall word cloud. This word cloud emphasizes the main key sectors where whole brain storming session focused.

- Environment Management
- Infrastructure Development

Through this analysis, can identified what are the key areas where every group has addressed and what are the key points that should be highlighted in future development plan



Overall Word Trees Analysis Based on Node Analysis

This word tree analysis is basically focused on the node analysis and this analysis direct where truly city development should be focused in future and issues and potentials of the Kelaniya development area

46. Environment Management

Since Kelaniya area is prominent for environment sensitive area in future also that character should be protected while having other developments. Kelaniya can be identified as a one of the highly developing area which is so close to Colombo.

Text Search Query - Results Preview

5000000

මුල් කර ගත් ආගමික හා රාම ශාලාවක් ඉදි කිරීම යෝජනා වගා කිරීම , බොග වගා කිරීම විදෙස් සැදැහැවතුන්ගේ නවාතැන් පහසුකම් හිතකම සැදැහැවතුන්ගේ නවාතැන් පහසුකම් හිතකම <mark>පාරිතරිකා</mark>

Problem Identification

• Environment Disequilibrium

Kelaniya development area is prominent for environment sensitivity. But with the developments and unauthorized constructions environment equilibrium has destroyed. That cause to impact the whole eco system of the development area.

Environment Pollution

Since industrial developments attracted to the Kelaniya, environmental pollution rate also getting high. The reason is these developments didn't develop according to the environmental standards. Most of them are locate in Kelani river reservation and waste is dumping to the river. That cause to create health issues and environmental issues as well.

02. Infrastructure Development

Current development trend of this area is focused on industrial based development and there is potential for develop industrial economy while protecting the environment in Kelaniya. Existing infrastructure developments are not facilitating the need of Kelaniya future development.

Text Search Query - Results Preview



Problem Identification

• Not enough infrastructure facilities for future developments

Trend of Kelaniya development has turned into the industrial focus and existing infrastructure facilities are not supporting for future need of the area. Further existing infrastructure facilities are supporting for developed sacred area base local pilgrims and tourism. • No proper sanitary and hotel facilities for tourists and pilgrims, Because of Kelaniya sacred area this

අසමතුලිතතාවය , පරිඝර දූෂණය වගා භූමි තත්වයන් ආරක්ෂා කිරීම ගැටළු පූජා පාරිසරිකා අසමතුලිතතාවය , පරිඝර දූෂණය වගා සංචාරක කර්මාන්තය ඉහල නැංවීම සමතුලිතතාවය ඉහල නැංවීම , පරිඝර දූෂණය city attracted more tourists and pilgrims. But current city is not facilitating for this commuter population with the need of them. So that has cause to reduce international acceptance of the city.

• Failures in existing waste water drainage system

Due to failures of existing drainage system this area is facing for flash flood and that is affected to the city dwellers living environment.

• Existing vehicle parks not support for the parking demand

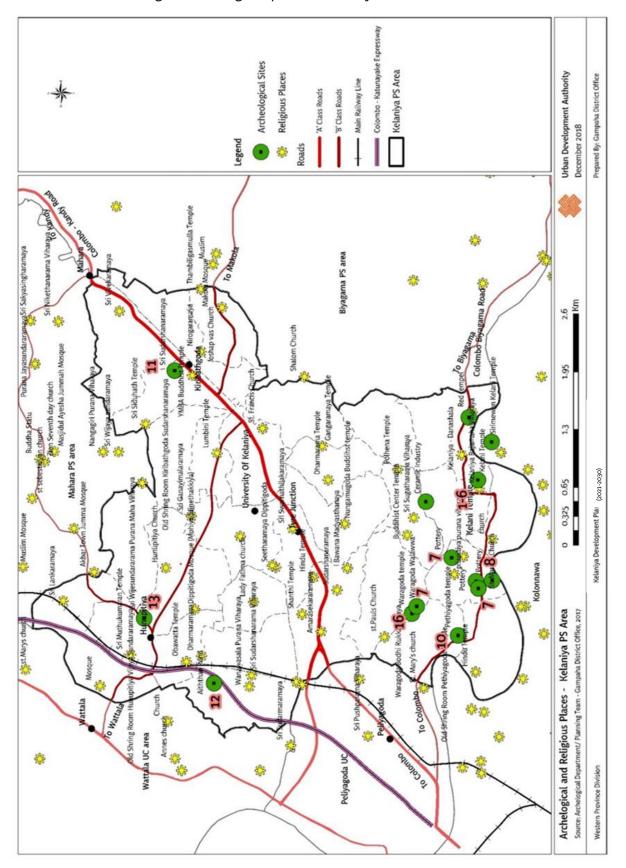
Kelaniya area is regularly having high range of commuter population within city boundaries. But the issue is existing vehicle parks were not creating spaces for this coming trend. So that has been a cause for increase traffic congestion of the area.

Potentials

- $\ensuremath{\square}$ Strong religious culture base pilgrims and tourist attraction
- I Proximity to Colombo port
- I Having well connected road network
- I Popular commercial and industrial centre

Conclusion of the Analysis

Stakeholder meeting results can be concluding as main two sectors according to the analysis. This whole analysis interprets the way development plan should address Kelaniya development area. Infrastructure developments for commercial and industrial developments is first sector where development plan should focus. The second sector is environment protection and preparing the landscape in Kelaniya temple area. The overall analysis can be explained as follows.



Annexure 24. Archeological and Religious places in Kelaniya

Kelani Temple – Old Pilima Geya

Kelaniya Stupa

Old "Seemamalakaya"



Old Dharma Shala



Old Vibheeshana Dewalaya



Ancient inscriptions



- Places of the ancient clay industry,300 meter from the Pilapitiya Viharaya (north of the Kumbal Oya)
- Pilapitiya Cemetry to 100 M towards Kelani river
- Pilapitiya Cemetry to 10 M towards west.

Pethiyagoda Paramarth Darmakara Old

Temple

•



Hunupitiya Vijaya Sundararamay





St. Marys Church



Old building which held Waragoda Dibet



Kiribathgoda Sudarshanaramaya



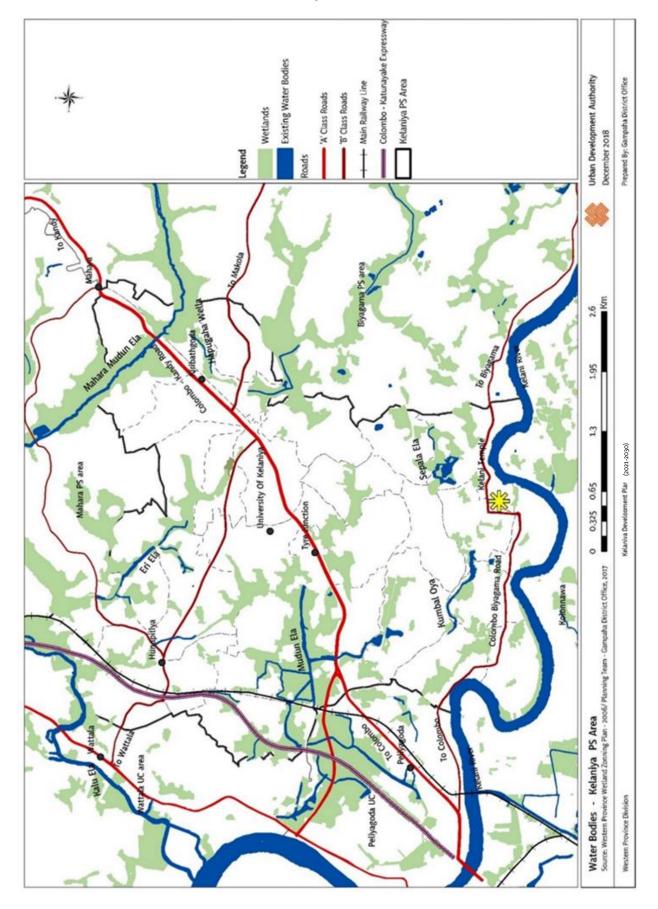
Dalugama Pond



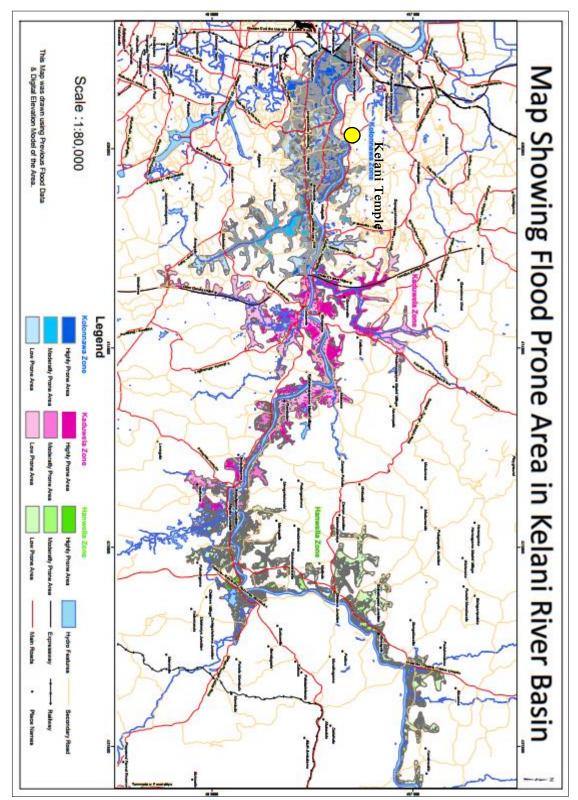
Waragoda Walawwa

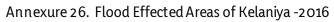


Aiththam Pond

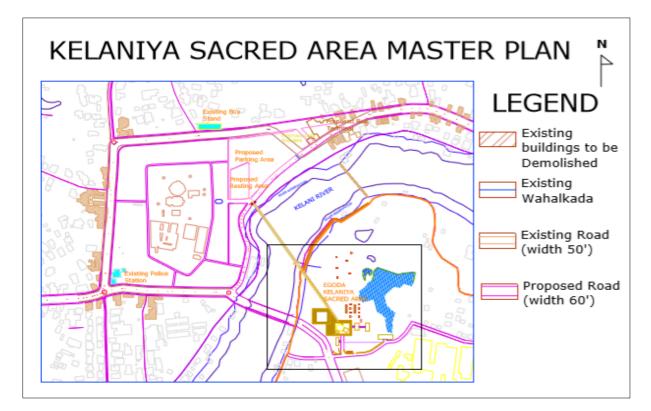


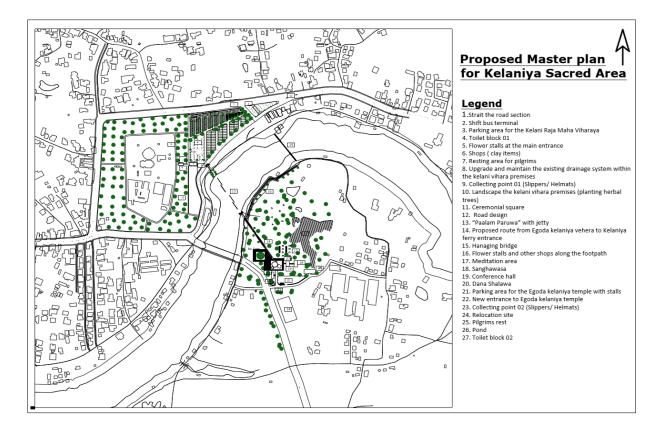
Annexure 25. Water Bodies Distribution of Kelaniya



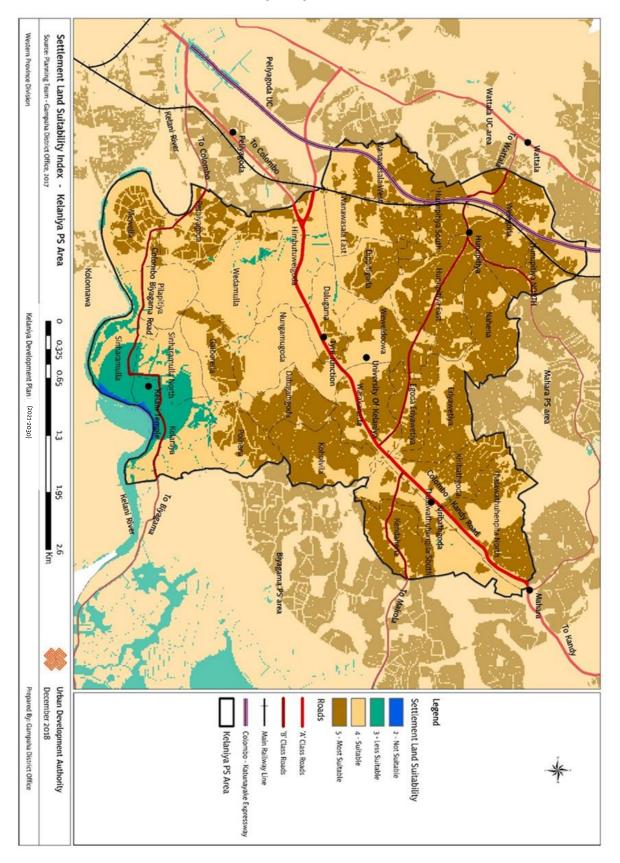


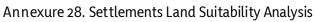
Source: <u>https://www.survey.gov.lk</u>

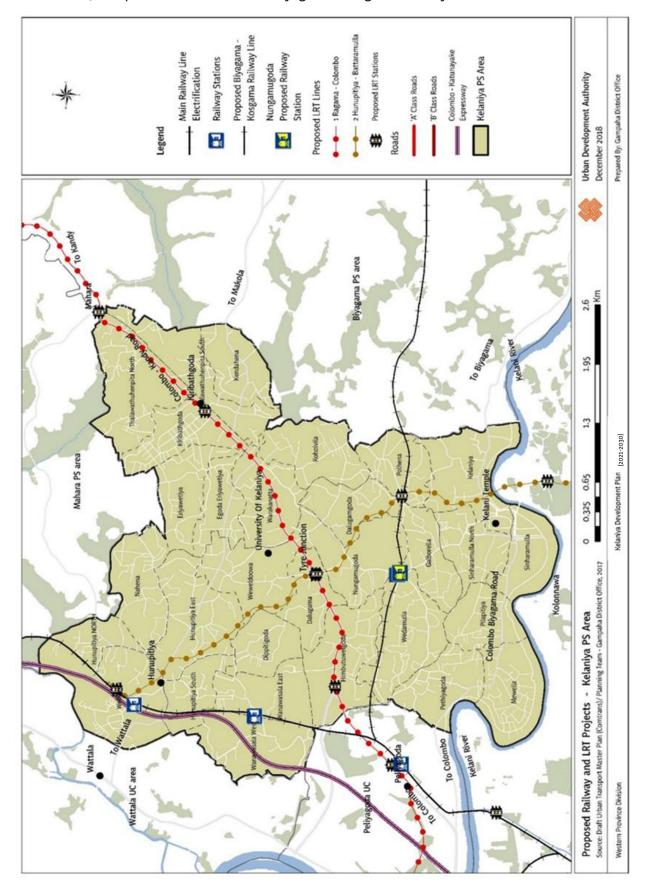




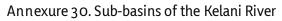
Source: National Physical Planning Department

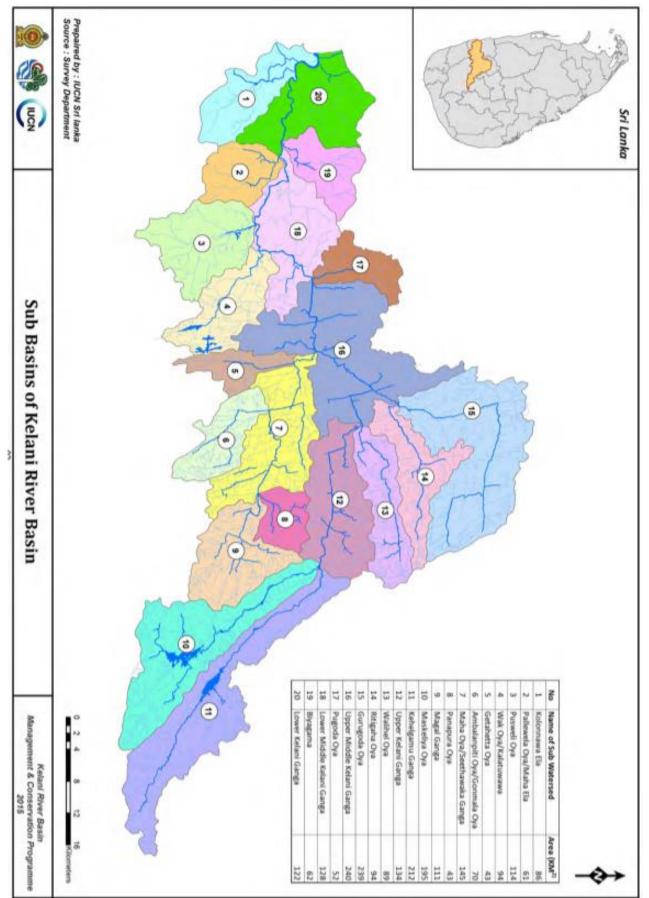


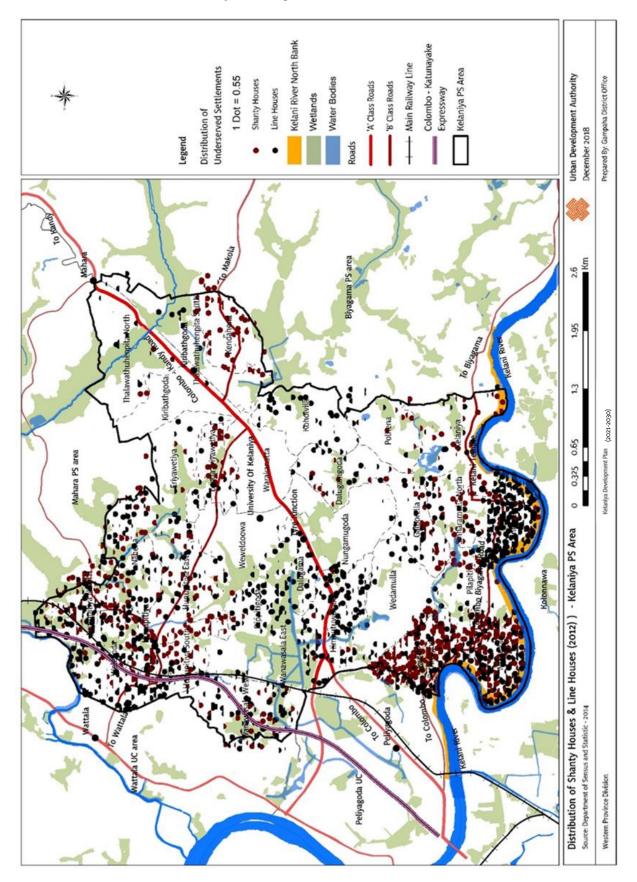




Annexure 29. Proposed LRT Line and New Biyagama -Kosgama Railway



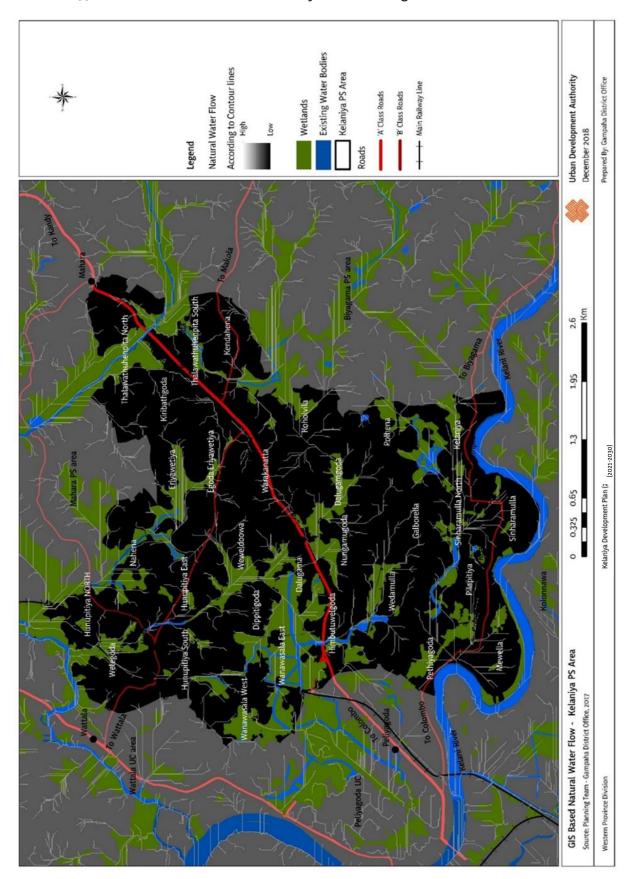




Annexure 31. Distribution of shanty Dwellings and Linear Houses

Annexure 32. GN Division Wise Slums and Shanties Distribution

GND	Twin Houses	Line Houses	Shanty Houses	Total Units
Welegoda	5	69	23	1509
Hunupitiya North	13	4	11	713
Nahena	5	18	10	1379
Thalawathuhenpita North	0	3	0	392
Thalawathuhenpita South	18	4	1	982
Kiribathgoda	3	0	0	867
Eriyawetiya	7	5	3	1202
Hunupitiya North	6	17	15	1388
Hunupitiya South	0	7	12	859
Egoda Eriyawetiya	1	9	10	663
Wanawasala West	4	25	11	1001
Kandehena	1	0	18	1001
Wewalduuwa	0	0	0	765
Wanawasala East	0	1	0	859
Warakanatta	0	0	0	681
Dippitigoda	2	13	0	938
Koholvila	15	14	0	1018
Dalugama	1	10	0	481
Nungamugoda	0	0	0	699
Dalugamgoda	2	7	3	658
Himbutuwelgoda	15	43	6	849
Wedamulla	0	4	0	1150
Polhena	10	0	2	698
Kelaniya	4	6	11	831
Pethiyagoda	12	26	71	1054
Galboralla	1	6	0	789
Sinharamulla North	4	17	15	1078
Mewella	14	72	46	1064
Pilapitiya	11	5	1	566
Sinharamulla	7	85	4	721





Annexure 34. Land Reclamation and Development Act

ග් ලංකා පුජාතාන්තික සමාජවාදී ජනරජයේ ගැසට් පතුය අති විශෙෂ The Gazette of the Democratic Socialist Republic of Sri Lanka EXTRAORDINARY

(Published by Authority)

PART I : SECTION (I) - GENERAL

Government Notifications

SRI LANKA LAND RECLAMATION AND DEVELOPMENT CORPORATION ACT, No. 15 OF 1968 AS AMENDED BY ACT, No. 27 OF 1976, No. 52 OF 1982 AND SRI LANKA LAND RECLAMATION AND DEVELOPMENT CORPORATION (AMENDED) ACT, No. 35 OF 2006

Order under Section 4(a)1

Y virtue of the powers vested in me under the Section 4(a)1 of the Sri Lanka Land Reclamation and Development orporation Act, No. 15 of 1968 as amended by Act, No. 27 of 1976, Act, No. 52 of 1982 and Sri Lanka Land Reclamation id Development Corporation (Amended) Act, No. 35 of 2006, I, Mabinda Rajapaksa, Minister of Defence with the insultation with all the respective Local Government Institutions do by this order reservations are declared, for all nu, sub canal and feeder canals where water flows, or led to flow or constructed with the objective of causing water in the limits indicated in meters in the chart below. Any or temporary or/and other sort of buildings or structures ould not be constructed in this canal reservation area and a permission should be obtained subject to the Terms d Conditions stipulated by the Sri Lanka Land Reclamation and Development Corporation in doing any sort of such tivity.

> MAHINDA RAJAPAKSA, Minister of Defence.

SCHEDULE

Corresponding to the surface width of all main canals, all sub canals and all feeder canals where water flows or used to flow water or canals constructed for the purpose of flowing water or those being created naturally for the purpose nated within the Western Province of the Democratic Socialist Republic of Sri Lanka and bounded at

Mandl		Product of Lanka and bounded at
North by		Maha Oya ;
East by	÷.	Areas in the Administrative District of Kegalle and area in the Administrative District of Ratnapura;
South by	· : /	Bentota Ganga and areas located in Galle District ;
West by		Sea.

and lengths from the bank depicted in the chart below of either canal banks shall be canal reservations.

1A

Surface width of the canal (meters)	Reservation from the canal bank				
	for open canals (meters)	For surface covered canal (meters,			
$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	1.0 2.0 2.75 3.5 4.5 6.5	0.3 1.0 1.0 1.5 1.5			

2A [cmode : (I) etca - 弱 ලංකා ; ජාතාන්තික සමාජවාදී ජනරජයේ අති විශෙෂ නැසට පතුය - 2010.07.14 PART I Sec. (I) - GAZETTE EXTRAORDINARY OF THE DEMOCRATIC SOCIAL IST REPUBLIC OF STATE - 2010.07.14

In case where lengths declared by the Urban Development Authority, Irrigation Department, Central Environment Authority, Agrarian Services Department and Local Government Institutions regarding the reservations mentioned above exceed the lengths given in this statement, the lengths declared by the said institutions shall be accepted.

TERMS AND CONDITIONS.

- (a) Construction of any sort of building or structure and (or) filling of land shall not be done within the area declared as a canal reservation without having a written approval of the chief Executive officer Sri Lanka Land Reclamation and Development Corporation.
- (b) As described in the Schedule the minimum extent of reservation shall physically be available.
- (c) Linking storm water drains, disposition of severage lines, industrial waste or throwing /disposition of any sort of object which cause corruption shall not be done or shall not take any attempt to do such as action.
- (d) Canal reserve could be used as an access road only in an instance where an alternative is not available, but that way shall not be covered by tar, after paving stones or concreting or apy other application.
- (e) Any individual, Society Institution, or Local Authority, shall not lease the canal reservation for commercial activities or any other activity.

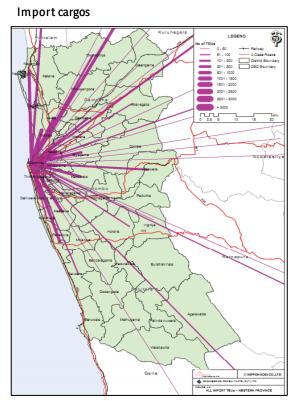
(f) Lands in the canal reservation shall not used for parking vehicles, garages and cultivations.

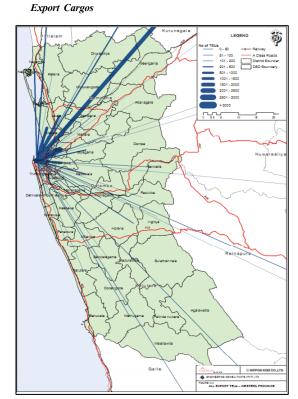
- (g) The prior written approval of the Sri Lanka Land Reclamation and Development Corporation shall be obtained for any activity done within the declared canal reservations.
- h) Any individual authority by the Chief Executive Officer of the Sri Lanka Land Reclamation and Development Corporation for the Activities stipulated in the Act, shall have the power to access the declared area and anyone who disturb such access could be a convicted guilty under the provisions of the Act.
- (i) Every individual who do not adhere to these terms and conditions is guilty under the Corporation Act.
- (j) The terms and conditions and also the terms and conditions impose in this connection in the future shall be adhered to.

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Annexure 35. Distribution of Export and Import Cargos



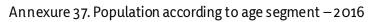


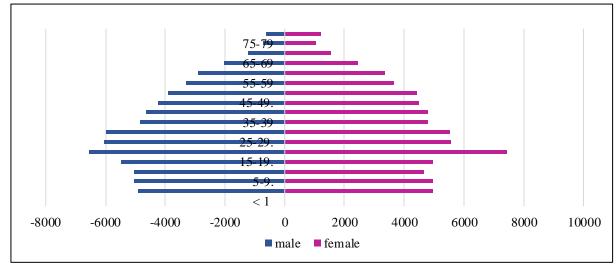
Source: Draft Peliyagoda Development Plan, 2017

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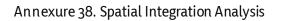
Town Centers	Development	Livability	Potential	Railway	Proposed	Total	Sensitivit	Total –	Priority
	Pressure	Index	Index	Stations	LRT		y Index	Sensitivit	Level
	Index				Stations			у	
Kiribathgoda	5	5	4	0	1	15	1	14	1
Hunupitiya	4	5	4	1	1	15	2	13	2
Tire Junction	4	5	4	0	1	14	2	12	2
Nungamugoda	3	4	4	1	0	12	2	11	3
Thorana	4	5	4	0	0	13	3	10	4
Junction									
Dalugama	4	4	4	0	0	12	2	10	4
Polhena	3	5	4	0	1	13	2	10	4
Wanawasala	2	5	4	1	0	12	2	10	4
Galboralla	3	5	4	0	0	12	3	9	4
Sinharamulla	2	4	3	0	0	9	3	6	5
Kelaniya	3	4	3	0	0	10	3	7	5
Wewalduuwa	3	4	3	0	0	11	2	9	5
Dippitigoda	2	5	3	0	0	10	2	8	5
Dalugamgoda	2	5	3	0	0	10	2	8	5

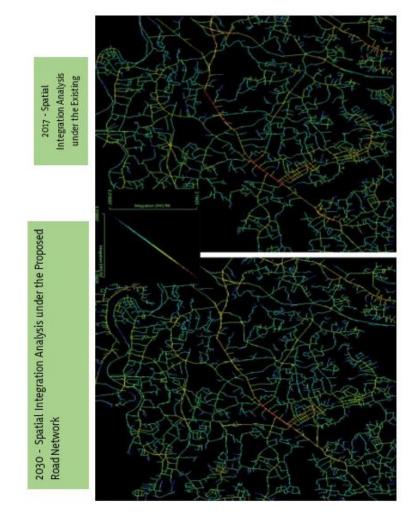
Annexure 36. Urban Service Centers Prioritization

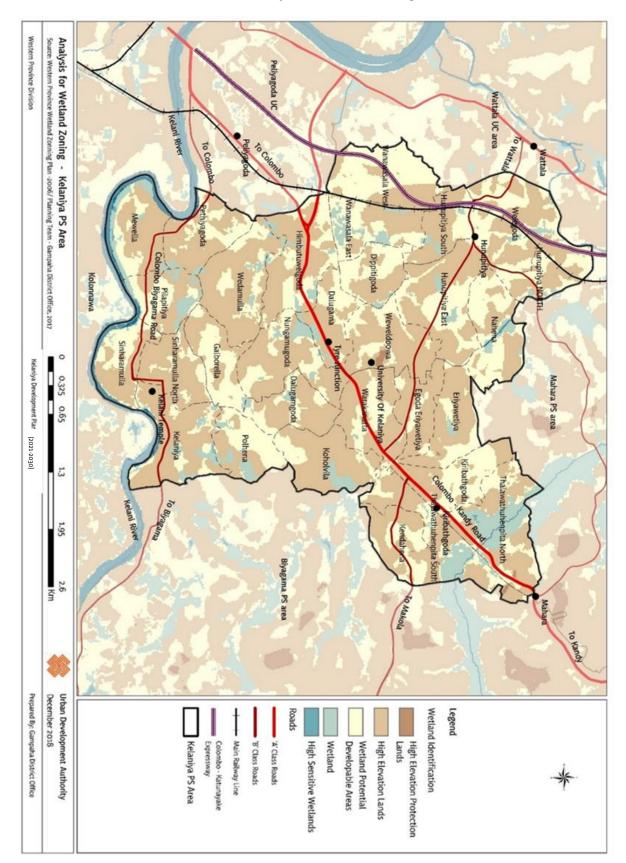




Source: Sampathpathikada Kelaniya PS-2016







Annexure 39. GIS Based Multi-Criteria Analysis for Wetland Categorization

No	Туре	Type of Parks & Playground	Extent (ha)	GN Division
01.		Existing Pocket Parks (EPP)		
	EPP 01	Rabarwatta Playground	0.18	Wilgoda
	EPP 02	Uswatta Playground	0.17	Sinharamulla
	EPP 03	Children's Playground	0.09	Dalugamagoda
	500	Polhena National Housing Scheme Children's	0.08	Polhena
	EPP 04	Playground		
		Total	0.52	
02.		Mini Parks (EMP)		
	EMP 01	Sinhatharu Playground	0.69	Thalawathuhenpitiya North
	EMP 02	Kiribathgoda Housing Corporation Playground	0.28	Kiribathgoda
	EMP 03	Pethiyagoda Housing Scheme Playground	0.22	Mewella
	EMP 04	Mewella Playground	0.65	Mewella
	EMP 05	MP 05 Dingiriyawatta Playground		Wewalduwa
	EMP 06 Waragoda Playground		0.79	Wedamulla
	EMP 07	Wanawasala Playground	0.45	Wanawasala West
	EMP 08	Wanawasala Playground (near cemetery)	0.36	Wanawasala East
		Total	4.34	
03.		Local Parks (ELP)		
	ELP 01	Nawaloka Seewalee Kelanithissa Playground	2.58	Dalugamgoda
	ELP 02	Siril Mathiw Playground	1.69	Himbutuwelgoda
		Total	4.27	
04.		Linear Parks (ELiP)		
	ELiP 01	Mahara Jogging Track (5m)	0.56	
		Total	0.56	
		Grand Total	9.69	

Annexure 40. Places which have obtain Direct recreational Facilities in Kelaniya

Annexure 41. Proposed Direct and Indirect Recreational Facilities (2019 – 203)	o)
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No	Туре	Extent (ha)	Proposed Used	GN Division
01.	Proposed Pocket Parks (PPP)			
	PPP 01	0.19	Pocket Parks	Kelaniya
	PPP 02	0.14	Pocket Parks	Wewalduwa
	РРР оз	0.17	Pocket Parks	Thalawathuhenpitiya North
	PPP 04	0.16	Pocket Parks	Wewalduwa
	Total	0.66		
02.	Proposed Mini Parks (PMP)			
	PMP 01	0.2	Mini Parks	Himbutuwelgoda
	PMP 02	0.2	Mini Parks	Naahena
	PMP 03	0.22	Mini Parks	Thalawathuhenpitiya North
	PMP 04	0.22	Mini Parks	Eriyawatta
	PMP 05	0.24	Mini Parks	Welegoda
	PMP 06	0.25	Mini Parks	Hunupitiya North
	PMP 07	0.25	Mini Parks	Dalugama
	PMP 08	0.32	Mini Parks	Hunupitiya North
	PMP 09	0.34	Mini Parks	Sinharamulla North
	PMP 10	0.34	Mini Parks	Thalawathuhenpitiya North
	PMP 11	0.38	Mini Parks	Kendahena
	PMP 12	0.39	Mini Parks	Eriyawetiya
	PMP 13	0.39	Mini Parks	Thalawathuhenpitiya North
	PMP 14	0.41	Mini Parks	Thalawathuhenpitiya South
	PMP 15	0.47	Mini Parks	Koholvila

			Mini Parks	
	PMP 16	0.61		Hunupitiya North
	PMP 17	0.62	Mini Parks	Wanawasala East
	PMP 18	0.64	Mini Parks	Mewella
	PMP 19	0.72	Mini Parks	Kelaniya
	PMP 20	0.75	Mini Parks	Sinharamulla North
	PMP 21	0.83	Mini Parks	Weligoda
	PMP 22	0.92	Mini Parks	Thalawathuhenpitiya South
	PMP 23	0.93	Mini Parks	Hunupitiya South
	Total	10.64		
03.	Proposed Local Parks (PLP)			
	PLP 01	1.14	Local Parks	Kelaniya
	PLP 02	1.18	Local Parks	Wedamulla
	PLP 03	1.7	Local Parks	Pethiyagoda
	Total	4.02		
05.	Proposed Linear Parks (PLiP)			
	PLiP 01 – Sepala Ela Reservation (4.5m)	1.39	Linear Parks	
	PLiP 02 – Natha Ela Reservation (6 m)	8.64	Linear Parks	
	PLiP 03 – Mudun Ela Reservation (6 m)	2.01	Linear Parks	
	PLiP 04 - Mahara Mudun Ela Reservation (6 m)	0.97	Linear Parks	
	PLiP 05 – Kumbal Oya Reservation (7.5m)	4.43	Linear Parks	
	PLiP 06 – Hapugala Dam Ela Reservation (4.5m)	1.55	Linear Parks	
	PLiP 07 – Eri Ela Reservation (6 m)	3.54	Linear Parks	
	PLiP 08 - Ela Reservation (4.5m)	0.36	Linear Parks	
	PLiP 09 - Ela Reservation (7.5m)	0.33	Linear Parks	
	PLiP 10 - Ela Reservation (6 m)	1.28	Linear Parks	
	PLiP 11 - Ela Reservation (4.5m)	0.58	Linear Parks	
	PLiP 12 - Ela Reservation (6 m)	2.68	Linear Parks	
	PLiP 13 - Ela Reservation (6 m)	3.11	Linear Parks	
	PLiP 14 (10m)	2.24	Linear Parks	
	PLiP 15 (10m)	1.32	Linear Parks	
	PLiP 16 (10m)	1.81	Linear Parks	

PLiP 17 (10m)	3.1	Linear Parks
PLiP 18 (10m)	1.2	Linear Parks
PLiP 19 (10m)	0.59	Linear Parks
PLiP 20 (10m)	2.61	Linear Parks
PLiP 21 (10m)	0.38	Linear Parks
PLiP 22 – Expressway Reservation	8.17	Linear Parks
PLiP 23 – Kelani River Reservation (60		Linear Parks
m)	35.64	
Total	87.81	
Grand Total	103.13	

Annexure 42. Permissible Uses for Public Outdoor recreational Spaces

No.	Park Category	Extent	Permitted Uses
1	Pocket Park	Less than 0.2 ha (0.5 acre)	 Scattered play spaces Rest areas Garden patches
			 Children's play area Small grassed playground
2	2 Mini Park	0.2 –1.oha (0.5- 2.5 A)	• Linear woodland park • Rest garden
3	Local Park	1.0-3.0 ha (2.5 –7.5 acres)	 Football pitch combined with Children Play area and informal relaxation space Large informal grassed area with Children play area Small woodland park and an informal running practice area.
7	Linear Park	Ganga Reservations/Oya Reservations/Ela Reservations/Road Reservations	 Walking Jogging Cycling Nature trails

Proposed Public Outdoor Recreational Space (PORS) Plan - Permitted activities

Annexure 43. Project Prioritization

Kelaniya Identified Project Prioritization							
projects	Value of Concept I	Social I	Enviro nmen tal Benefi t	Cost & Time period Variati on	Total	Priority Level	
Physical an Strategies	d social infrastructure development						
1	Transport Plan						
	2 nd 268reatmen road improvement	l	l	1		l	<u>I</u>
	Proposed New bypass road for Kiribathgoda linking Peliyagoda-Mahara	9	9	5	9	32	1
	Widening the Hunupitiya – 268reatme Road up to 4 lanes	7	9	5	9	30	2
	3 rd 268reatmen road						
	Widening Hospital Road up to 12 m.	7	9	5	9	30	2
	Widening Eriyawetiya road up to 12 m	7	9	5	9	30	2
	Widening Wewadoowa road up to 12m	7	9	5	9	30	2
	Widening Dippitigoda road up to 12m	7	9	5	9	30	2
Hierarchica l road improveme	Widening Wanawasala – Wattala road up to 12m	7	9	5	9	30	2
nt strategies	Polhena – Nungamugoda pedestrian- link road development	7	9	5	7	28	3
	Hunupitiya station Road improvement	9	9	5	9	32	1
Public	Main railway line Electrification	9	9	5	5	28	3
transport Improveme nt	Biyagama – Kosgama new Railway line development	9	9	5	5	28	3
111	Ragama – Narahenpita LRT line	9	9	5	5	28	3
	Hunupitiya – Kottawa LRT line	9	9	5	5	28	3
Low level road access improveme nt	New Kelani river bridge development	5	7	5	3	20	3

2	Service Plan						
	Hunupitiya Middle income housing project	7	9	7	7	30	2
Settlement Development	Climate Resilience Improvement Project – Kelani river bund shanties relocation	9	9	9	1	28	3
	Kiribathgoda multi storied car park	9	9	5	9	32	1
(TOD) Urban service	Pedestrian Overpass bridge at YMBA junction and Eriyawetiya junction	9	9	5	9	32	1
improvement	Redevelopment of Kiribathgoda bus stand with up stair urban park	5	9	5	9	28	3
	Development of Kiribathgoda LRT station	9	9	5	3	26	3
	Development of Tier junction LRT station	9	9	5	3	26	3
	Sarasavi Art Center redevelopement at Tyre junction	7	9	5	9	30	2
	Hunupitiya transport centre development project	9	9	5	9	32	1
	Development of Nungamugoda LRT station	9	9	5	3	26	3
	Relocation of Kelaniya bus stand to Nungamugoda	9	7	5	7	28	3
	Development of Polhena LRT station	7	7	5	3	22	3
	Development of Hunupitiya commercial complex	7	9	5	9	30	2
	Development of Hunupitiya sathipola	5	9	5	9	28	3
	Development of Hunupitiya mixed commercial squre	5	9	5	7	26	3
Health	Improvement of Kiribathgoda based hospital	5	9	5	5	24	3
	Snake subject hospital improvement at Polhena	5	9	5	5	24	3
	Ayurvedic Hospital and "Dana Shalawa" at Kelaniya	7	9	7	7	30	2
Education	Kelaniya new Engineering faculty building – existing Dasa building	5	7	5	5	22	3
Water	Pattivila Right Bank water 269reatment plant stage II	7	9	5	5	26	3
	Mabima water treatment Plant	5	9	5	5	24	3
Solid wasta	Redevelopment of Manelgama compost yard with wast recycling plan	7	9	7	7	30	2
Solid waste	Manelgama- wanawasala waste transition station development	5	9	7	3	24	3
Waste Water	Peliyagoda – Kelaniya waste water Project	7	9	7	3	26	3

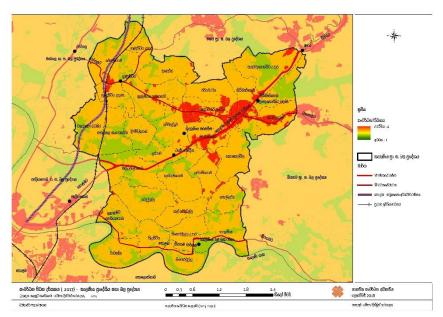
Economic Develo	pment Strategies						
	Sacred area pilgrim tourism based development						
	Galboralla Ceramic Industry redevelopment project	9	9	5	7	30	2
	Commercial complex development at Kelaniya	9	9	5	7	30	2
	Kiribathgoda Shopping colonnade	1		1			
	Multi – functional commercial centre at Kiribathgoda	9	9	5	9	32	1
	Kiribathgoda main road shopping street development	9	9	5	7	30	2
Environment Sus	tainable Strategies						
	Landscape Improvement						
	Tree line improvement toward the sacred area	9	9	9	7	34	1
	Canal Reservation tree line improvement	7	9	9	5	30	2
	Disaster Management Plan						
Canal	Natha Ela improvement	9	9	9	5	32	1
improvement	Hapugaha Wella improvement	9	9	9	5	32	1
	Eri Ela improvement	9	9	9	5	32	1
	Mudun Ela improvement	9	9	9	5	32	1
	Kumbal oya improvement	9	9	9	5	32	1
	Pethiyagoda Pumping station development	7	7	7	3	24	3
	Public Open Recreation			I	1		
	Hunupitiya liner park	7	9	7	7	30	2
	Urban park with walking track at Kiribathgoda – Koholvila	9	9	7	5	30	2
	Kiribathgoda town center Recreational park	9	9	7	7	32	1
	Wattala Hunupitiya walking track	7	9	7	5	28	3
	Jogging Track at Tyre Junction	7	9	7	7	30	2
	Play Grounds, Jogging Tracks and Housing Scheme at Kelaniya	7	9	7	7	30	2
	Improvement of Kiribathgoda Walk Trail	7	9	7	7	30	2
	New Bycycle Track (From Kiribathgoda Walk Trail to "Suwatha Uyana"	7	9	7	7	30	2

Cultural and Heritage	Mangement Stratagies						
	'Kelaniya Placidity precinct Strategy'						
	Thorana Junction to Kelani temple road						
	improvement	9	9	5	9	32	1
	Tyre junction to Kelani temple road improvement	9	9	5	9	32	1
	Kiribathgoda to Kelani temple road improvement	9	9	5	9	32	1
	New Kelani valley crescent road improvement	9	9	5	9	32	1
	Sacred Area Ceramonial entrance improvement at						
	thorana junction, Tire junction and Kiribathgoda	9	7	5	9	30	2
Road Improvement	Kelaniya Police Station Relocation	9	9	5	7	30	2
	Outdoor pilgrim resting area development at						
	temple premises	7	9	5	5	26	3
	Development of holiday resort with information						
	center at Kelani temple premises	7	9	7	9	32	1
	Lake with landscape improvement at Kelaniya	5	9	7	5	26	3
	Parking area with mini bushalt development at						
	Kelaniya	9	9	5	5	28	3
	Socio – Cultural River Scape Improvement strategies				1	1	
	Linear park development at Kelani river north bud	9	9	9	5	32	1
	Kelani River access way improvement Project	9	9	9	7	34	1
	Kelani River Boat Jatty development	7	9	5	3	24	3
	Hangging bridge connecting Egoda Kelaniya and Megoda Kelaniya	9	9	5	3	26	3

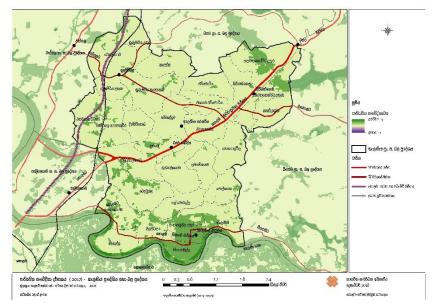
Annexure 44: Basis for Zoning

The zoning plan of Kelaniya Development Plan 2019-2030 is basically based on expected density of the area, rather than just a land use-based zoning. Accordingly, scientific analysis such as development pressure of the area, environmental / cultural sensitivity, land suitability for settlement, development potential and conceptual plan.

1. Development Pressure The Development Pressure of the area was identified using existing road density, building density, population density, population growth rate and land use pattern in the area.

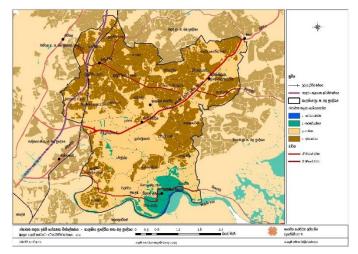


2. Sensitivity Analysis The key is to identify sensitive where development areas throughout the region should be restricted. Environmentally sensitive areas such as water sources, sensitive green areas, paddy fields, marshes, forests, areas that are prone to disasters, religious, historical and archaeological sites. Analyzing all these factors, the end result is identifying which areas of development should be restricted within the area.



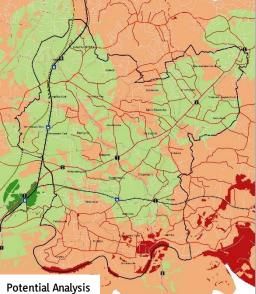
3. settlement suitability index

GIS based settlement suitability index is used to identified the area which suitable for settlement distribution by considering the existing disaster impact, natural and archeological context, and carrying capacity. Accordingly, it has identified the areas to developed from low density to high density as shown in map.



4. Potential Analysis

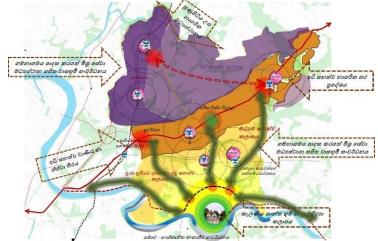
The proposed development projects will identify potential areas for development based on the assumption of potential impact to the area over the next 12 years. The analysis is done in view of the proposed new light rail projects and the development of railway electrification and their impacts.



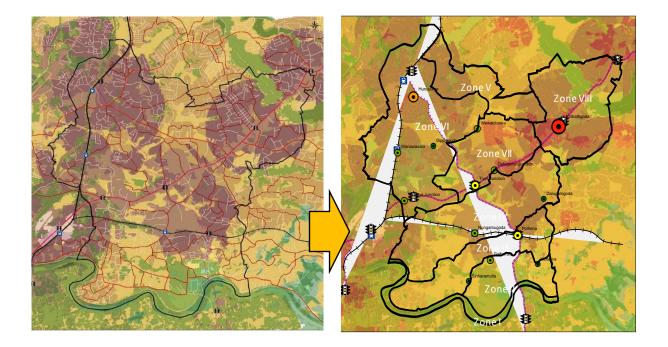
5. Expected Urban Forum

The conceptual framework for achieving the vision for the year 2030 Pot

was also taken into consideration. It determined the proposed density and the dominant use of the region according to the characteristics of each zone.



* Composite Density Analysis

This area is classified into density zones as follows based the composite analysis of all analysis which previously discussed., 

Determination of density and priority use for zones with similar densities is based on a mathematical priority index based on the above analyzes. It is shown in the following table.

Zone	Development	Sensitivity	Potential	Suitability	Wetland	Impact of	Total	Proposed
	Pressure		index	Index	and	railway		Density
					waterbodies			
Zonel	1	1	3	3	1	1	10	Low
Zone II	1	3	3	3	1	3	14	
Zone III	2	2	5	3	1	2	15	
Zone IV	3	3	5	3	3	5	22	Moderate
Zone V	3	5	5	5	1	5	24	High
Zone VI	5	5	5	5	3	3	26	
Zone VII	5	5	5	5	3	5	28	
Zone VIII	3	5	3	5	5	5	26	

Annexure 45: Calculation of Zone Factor

The Zone Factor is calculated to determine the density of the zones for each region in accordance with the density-based zoning plan. Zoning Factor represents the total development that can be hold for the particular area for particular year. It has evaluated based on several factors such as,

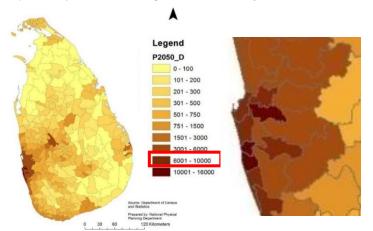
- I. The environmental/ Cultural Sensitivity of the area
- II. The Infrastructure availability (Eg. Water Supply, Electricity Supply, Sewerage disposal, Access
- III. Roads, Surface drainage etc...)
- IV. The carrying capacity in terms of geographic conditions, Population density etc...
- V. Expected urban Form

The zoning factor is calculated based on the space requirement for the future anticipated development which depends on expected Residential and Commuter population in the respective zone and it's a novel concept which used instead of FAR (Floor Area Ratio).

The zone factor is helped to determined that the developable area should develop to what extent within the given period of time to tap the expected residential and commuter population and their needs. Here, the existing commercial, residential, institutional, vacant land and other plantation areas were identified as *developable areas* and environmental sensitive areas such as water bodies, wetlands, archeological sites, roads and reservation areas consider as *Un-developable* lands. The calculation of Zone factor was mainly focus of five complex steps as describe further.

1. Identified existing population and forecasted population for the year 2030 according to the zones

The Residential Population in the year 2017 was identified based on the Grama Niladhari Divisions and the proposed zones, taking into account the natural growth rate of 0.45% based on the 2011 census. Population growth rate of more than 1% out of the 30 Grama Niladhari Divisions in the area is 1.41%, considering the Residential Population of 111,300 Residential Population by 2017 and the Population Distribution by 2050 as outlined by the National Physical Plan. The Residential Population is projected to be 141,000 by 2030, with the moderate growth rate assumed to be a growth rate.



Proposed Population according to the National Physical Plan

Thus, this 141,000 of total population predicted for whole Kelaniya PS area were distributed to each zone based on their expected densities.

<u>Assumptions</u>

- i. Population growth rate of Kelaniya and Sinharamulla areas which includes to the low-density sacred heritage zone and Mewalla and Pethiyagoda areas which includes low density zone is 0.45%.
- ii. Expected population growth rate within 500-800 radius from the existing and proposed railway and LRT station areas consider as 2.21% which is the maximum population growth rate in the planning area.
- iii. Expected growth rate of High-Density Higher Education Zone will be determined as 1.41% based on the growth rated of all Grama Niladhari Divisions which having more than 1%.

Based on these assumptions, the population for the year 2030 can be divided as follows.

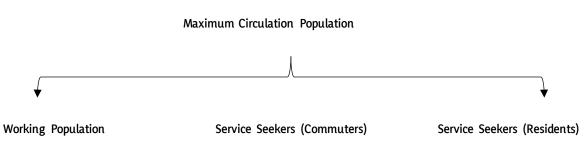
Zone	GND	Populatio	Popula	Populat	Expected	Prediction	Population
		n 2011	tion	ion in	growth	for 2030	in zone
			2017	zone	rate		2030
Low Density Sacred Heritage Zone	Kelaniya	3230	3371	10708	0.0045	3574	11353
Zone	Sinharamulla North	4151	4521		0.0045	4794	
	Sinharamulla	2834	2816		0.0045	2986	
Low Density Residential	Polhena	954	1028		0.0221	1370	12635
Zone	Galboralla	3059	3203		0.0221	4270	
	Pilapitiya	2070	1985	10565	0.0141	2385	-
	Mewalle	4356	4349		0.0045	4611	-
Moderate Density Residential Zone	Koholvila	4033	4201		0.0221	5599	26229
Residential Zone	Dalugamgoda	3182	3714		0.0221	4951	
	Nungamugoda	2968	2929		0.0221	3904	
	Wedamulla	4561	3714		0.0221	4951	
	Pethiyagoda	4094	4152	20528	0.0045	4402	
	½ of Himbutuwelgoda	1880	1818		0.0221	2423	
High Density Commercial Zone	Thalawathuhenpita North	3737	3696		0.0221	4927	15778
	Thalawathuhenpita South	1624	1480		0.0221	1973	

Zone wise expected Population

	Kandahena	3618	3736	11838	0.0221	4979	
	Kiribathgoda	3302	2925		0.0221	3899	_
High Density Higher Education Zone	Warakanatta	3926	4341	12627	0.0141	5215	15170
Lucation zone	Egoda Eriyawetiya	2629	2689	-	0.0141	3231	_
	Wewalduuwa	3643	3757		0.0141	4514	_
	Dalugama	1938	1839	-	0.0141	2210	_
High Density Logistic Zone	Welegoda	6646	6904		0.0221	9202	40218
	Hunupitiya South	3507	3662	-	0.0221	4881	
	Hunupitiya East	5774	6296		0.0221	8392	_
	Wanawasala East	3415	3780	-	0.0221	5038	
	Wanawasala West	3916	4005	-	0.0221	5338	
	Dippitigoda	3513	3707		0.0221	4941	_
	½ of Himbutuwelgoda	1881	1819	30174	0.0221	2424	
High Density Residential	Hunupitiya North	2987	3165		0.0221	4218	19633
Zone	Nahena	5761	6426	-	0.0221	8564	
	Eriyawetiya	4664	5140	14730	0.0221	6850	
Special Eco-Conservation Zone							0

2. Identification of existing and expected commuter population for the year 2030

Both working population and service seekers also consider as circulation population (Commuter Population).



• Calculating existing working population - 2017

I. Consider existing working population in Gampaha District – 2016

Gampaha District	Agriculture	Industry	Service
Formal sector	17330	36150	213180
Informal sector	26580	224190	327030
Total	43910	260340	540210

Source: Sri Lanka Post-Disaster Needs Assessment – 2016

II. Consider Industries and Commercial Places establishments – DSDs in Gampaha

Establishment	Kelaniya DSD	Gampaha Distriact	%
Services- No of Commercial Places	2392	27298	8.762547
Industries No. of Industries	975	17415	5.598622

Source: http://www.statistics.gov.lk/DistrictStatHBook.asp

III.Based on the above percentages of services and industrial establishments in Kelaniya DSD area, working populationof Kelaniya DSD area were extracted from the working population of Gampaha district.

	Industrial	Services
Formal sector (Gampaha District)	36150	213180
Informal Sector (Gampaha District)	224190	327030
Total working population	260340	540210
Assumed working population in Kelaniya DSD area	260340 * 0.055986	540210 * 0.08763
	14575	47338

To extract the working population for only Kelaniya Planning area, consider land use percentages of each land uses in both Peliyagoda UC area and Kelaniya Ps area separately and divided the working population based on land use percentages.

- i. Total Land extent (Kelaniya DSD) 21.9 sq.km
- ii. Peliyagoda UC 4 sq. km / Kelaniya PS 17.9 sq.km

• Land Use – Peliyagoda UC

Land use	%
Residential	61.9%
Industrial/Ware houses	8.3%
Wetlands/Marshy/Scrubs	16.1%
Hotel & Restaurant	0.2%
Parks & Playgrounds	0.4%
Wholesale & Retail	1.1%
Religious	0.7%
Water Bodies	4.3%
Roads	6.2%
Waste dumping Area	0.2%
Open Spaces	0.6%

Industries and warehouse extent – 332,000 sq.m Commercial – 52,000 sq.m

• Land Use – Kelaniya PS

Landuse	Area (sq.m)
commercial	872867.784
Industrial	1089819.91
Institutional	480797.168
Residential	10338347.6

Accordingly, when consider the industries and service land use distribution of Kelaniya PS area it has represented 94.4% of Commercial Uses from whole DSD area and 76.6% of industrial uses from whole DSD area. Based on these assumption Number of establishments find as follows,

Establishment	Kelaniya DSD	%	Kelaniya PS
Services- (No of Commercial Places)	2392	94.4%	2248
Industries (No. of Industries)	975	76.6%	747

	Industry	Service / commercial
2017 – Working population in Kelaniya PS area	14575 * 0.766	47338*0.944
	11,164	44,687

Accordingly, total working population in Kelaniya PS area is 55,851. In order to identify the total circulation population for 2030, the total circulation count for each region was calculated using the per capita land use standard in different ways to calculate the number of service users in addition to clients.

Per-capita Space for different uses

Activity Type	Average Per Capita Space (Sq.m)
Retail / Wholesale	20
Tourism	40
Private Office	30
Industrial	60
Institutional	25
Residential	50

(Reference: Engineering ToolBox, (2001). [online] Availalable at: https://www.engineeringtoolbox.comPer Capita Activity Space Standards for City of London

Circulation Population for Commercial Uses – 2017

Zone Name	Commercial			
	Area sq.m	allowable space	Average No. of	Commuter
			floors	based on per
				capita space
Low Density Sacred Heritage Zone	38903	31122.6	1.0	1556
Low Density Residential Zone	50026	40020.5	2.0	4002
Moderate Density Residential Zone	51303	41042.1	3.0	6156
High Density Commercial Zone	322526	258020.7	4.	58055
High Density Higher Education Zone	232955	186364.2	4.0	37273
High Density Logistic Zone	144601	115680.5	3.0	17352
High Density Residential Zone	24525	19620.2	2.0	1962
Special Eco-Conservation Zone	8029	6423.2	1.0	321
Total sectoral Commuters				126677

Circulation Population for Institution	onal Uses – 2017
--	------------------

Zone Name		Institutional				
	Area sq.m	allowable space	Average No. of	Commuter		
			floors	based on per		
				capita space		
Low Density Sacred Heritage Zone	22762	18209.7	1	728		
Low Density Residential Zone	14672	11737.3	2	939		
Moderate Density Residential Zone	53911	43129.1	3	5175		
High Density Commercial Zone	72573	58058.5	4	9289		
High Density Higher Education Zone	205017	164013.4	4	26242		
High Density Logistic Zone	80902	64721.2	2	5178		
High Density Residential Zone	30961	24768.5	1	991		
Special Eco-Conservation Zone	0	0.0		0		
Total sectoral Commuters				48543		

Circulation Population for Industrial Uses - 2017

Zone Name	Industries				
	Area sq.m	allowable space	Average No. of	Commuter	
			floors	based on per	
				capita space	
Low Density Sacred Heritage Zone	64723	51778.2	1	863	
Low Density Residential Zone	55526	44420.6	1	740	
Moderate Density Residential Zone	405470	324376.2	1	5406	
High Density Commercial Zone	30885	24707.8	1	412	
High Density Higher Education Zone	158246	126596.9	1	2110	
High Density Logistic Zone	363720	290976.2	1	4850	
High Density Residential Zone	3990	3192.2	1	53	
Special Eco-Conservation Zone	7260	5808.0	1	97	
Total sectoral Commuters			1	14531	

Total Circulation Population – 2017

Zone Name	Total
Low Density Sacred Heritage Zone	3147
Low Density Residential Zone	5681
Moderate Density Residential Zone	16738
High Density Commercial Zone	67756
High Density Higher Education Zone	65625
High Density Logistic Zone	27379
High Density Residential Zone	3006
Special Eco-Conservation Zone	418
Total sectoral Commuters	189751

Accuracy of these per-Capita space-based commuter population calculation can be proved with following details.

• Kelaniya University

Year	Total Intake	graduated	student	Academic staff	Non-academic staff	Total
2012/2013	1810		15159	435	376	15970
2013/2014	2235		15576	439	378	16393
2014/2015	2480	1936	16120	704	. 732	17556

Source: 2012/2014/2015 – Annual Report – University of Kelaniya

Note 1: Compare this figure with the commuter population in the Higher Education Zone

Note 2: special cases , may be ones a week or two weeks

(2015) - Total number of registered students for all external degree programs (1st year, 2nd year, 3rd year & (4th year only B.com) are **41089**.

• Kiribathgoda Town

Kiribathgoda po Amaratunga	lice station building to be completed in four months - Minister
building for a full fle	nd Christian Affairs John Amaratunga laying the foundation stone for the construction of a lged police station at Kiribathgoda recently said that he had the assurance from the I.G.P. be ready for occupation by April 2003.
	t a complete police station is a long felt need for the Kiribathgoda town which has a 30,000 with a daily transit population of 50,000. At present the area is served by a Police

Minister Amaratunga said that they were to open the full fledged police station temporarily at the same place where the temporary police post operates at the sports club premises of the Kiribathgoda Housing Scheme till a new building is put up. However some people who were against it filed a court case preventing the opening of the

Daily commuters in Kelani Vihara is not consider for this calculation because it is an exceptional and seasonal situation.

Kelani Temple	Commuter population
Kelani Perahara, January	200,000
Special Poya days	150,000
Poya days	75000
Daily	10,000 - 20,000

• Expected Commuter population for the year - 2030

	Zone	Commuter Po	pulation	Total	Other	
		Commercial	Institutional	Industrial		
		/ Service				
i	Low Density Sacred Heritage Zone	1556	728	863	3147	Kelani temple 15000
ii	Low Density Residential Zone	4002	939	740	5681	
iii	Moderate Density Residential Zone	6156	5175	5406	16738	
iv	High Density Commercial Zone	58055	9289	412	67756	
v	High Density Higher Education Zone	37273	26242	2110	65625	University
vi	High Density Logistic Zone	17352	5178	4850	27379	
vii	High Density Residential Zone	1962	991	53	3006	
viii	Special Eco-Conservation Zone	321	0	97	418	
Total	Commuter Population	189751				

The following assumptions are used for calculating expected commuter for the year 2030 based on existing population and development potentials.

- I. Commuters for commercial by 25% and commuter for institutional by 10% grown in proposed low-density sacred heritage zone. It not considers the pilgrims commuters. The existing industrial uses in the area decrease by 75%.
- II. Commercial and institutional commuters in low density residential zone is increased by 25% and industrial commuters decreased by 75%.
- III. The existing commercial and institutional commuters in moderate density residential zone is increased by twice and industrial cummuters decreased by 25%.
- IV. Commercial circulation population in proposed commercial zone is increased by three times, institutional circulation population increased by five times and industrial circulation population decreased by 25%.
- V. Commercial circulation population in higher education zone increased by three timed and institutional circulation population increased by two times and industrial circulation population increased by 25%.
- VI. Commercial and institutional circulation population in logistic zone increased by three times and industrial circulation population is increased by five times.
- VII. Commercial and institutional circulation population in high density residential zone increased by two times and industrial circulation population is increased by 25%.
- VIII. Commuter population not calculated for Special eco conservation zone because it is not considered for zone factor.

		Expected circulation pop	oulation		
	Zone	Commercial / services	Institutional	Industries	Total
i	Low Density Sacred Heritage Zone	1945	801	216	2962
ii	Low Density Residential Zone	5003	1174	185	6361
iii	Moderate Density Residential Zone	12313	10351	4055	26718
iv	High Density Commercial Zone	174164	46447	515	221126
v	High Density Higher Education Zone	93182	52484	2637	148304
vi	High Density Logistic Zone	52056	15533	24248	91837
vii	High Density Residential Zone	3924	10355	67	14346
viii	Special Eco-Conservation Zone	642	0	97	739
Total	circulation population	I	I	1	512394

3. Calculate expected percentage of land uses for each zone

Zone	Developable	Comme	ercial	Residential		Institutional		Industries	
	foot print (m ³)	2017 (%)	2030%	2017 (%)	2030%	2017 (%)	2030%	2017 (%)	2030%
Low Density Sacred Heritage Zone	1039056.641	3.74	5.5	87.84	90.31	2.19	2.19	6.23	2.0
Low Density Residential Zone	1456068.417	3.44	5.0	91.74	92.30	1.01	1.20	3.81	1.5
Moderate Density Residential Zone	2672718.626	1.92	6.0	80.89	90.00	2.02	2.27	15.17	1.7
High Density Commercial Zone	1892263.949	17.04	30.0	77.49	61.00	3.84	7.00	1.63	2.0
High Density Higher Education Zone	1665292.887	13.99	14.5	64.20	68.00	12.31	14.00	9.50	3.5
High Density Logistic Zone	2915816.182	4.96	7.3	79.79	65.00	2.77	3.00	12.47	24.7
High Density Residential Zone	1049564.635	2.34	2.3	94.33	94.33	2.95	2.95	0.38	0.4
Special Eco- Conservation Zone	91051.11776	8.82	8.0	83.21	0.00	0.00	0.00	7.97	0.0

4. Calculate total space requirement for the year 2030 based on expected residential and circulation population.

Zone	Develop	Con	nmercial	Resid	ential	Institutio	onal	Industrie	S	
	able foot									Total
	print									expected
		Expected population	Space requirement (m2)	Expected no. of families	Space requirement (m2)	Expected population	Space requirement (m2)	Expected population	Space requirement (m2)	space requireme nt for 2030
Low Density Sacred	1039056	1945	38903.30	2838	56760	801	24030.0	215.74	12944.5	643477.84
Heritage Zone	.641				0		0		4	
Low Density	1456068	5003	100051.1	3160	63200	1174	35211.78	370.17	22210.2	789473.26
Residential Zone	.417		9		0				8	
Moderate Density	2672718.	12313	246252.8	6557	13114	10351	310529.7	4054.7	243282.	2111464.80
Residential Zone	626		8		00		7	0	15	
High Density	1892263.	17416	3483280.	3945	78900	46447	1393404.	514.75	30884.	5696569.3
Commercial Zone	949	4	07		0		56		71	5
High Density Higher	1665292.	9318	1863642.	3793	94825	52484	1574528.	2637.43	158246.	4544667.3
Education Zone	887	2	42		0		87		07	6
High Density	2915816.	5205	1041124.	10055	251375	15533	465992.7	24248.	145488	5475748.46
Logistic Zone	182	6	77		0		9	01	0.90	
High Density	1049564	3924	78480.99	4908	12270	10355	310661.8	66.50	3990.2	1620133.12
Residential Zone	.635				00		6		7	
Special Eco-	91051.11	642	12846.40	0	0		0.00	96.80	5807.9	18654.38
Conservation Zone	776								9	

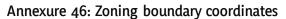
• It is based on per-capita space requirement

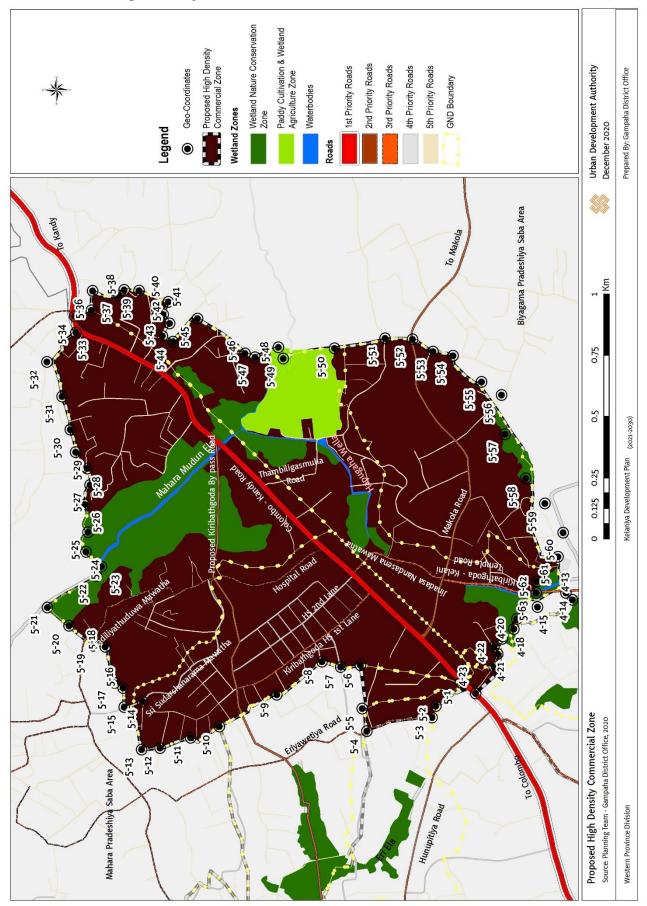
• 50 sq.m of space for each residential unit in high density areas were added to consider the temporary residence.

5. Calculate zone factor based on developable foot print and total space requirement which find throughout the above steps.

$Zone \ Factor = rac{Total \ Expected \ FloorArea}{Available \ Developable \ Land \ Area}$

	Total space requirement	Developable land	Vacant lands and other	Total developable	Zone
Zone	for 2030 (m2)	extent (m2)	plantations (m2)	lands (m2)	Factor
Low Density Sacred					
Heritage Zone	643477.84	1039056.64	92992.85	1132049.49	0.57
Low Density					
Residential Zone	789473.26	1456068.42	37368.95	1493437.37	0.53
Moderate Density					
Residential Zone	2111464.80	2672718.63	133082.40	2805801.02	0.75
High Density					
Commercial Zone	5696569.35	1892263.95	59603.14	1951867.08	2.92
High Density Higher					
Education Zone	4544667.36	1665292.89	46624.32	1711917.21	2.65
High Density Logistic					
Zone	5475748.46	2915816.18	105310.43	3021126.61	1.81
High Density					
Residential Zone	1620133.12	1049564.64	57360.25	1106924.88	1.46
Special Eco-					
Conservation Zone	18654.38	91051.12	34430.78	125481.90	0.15





Boundary Coordinates - High Density Commercial Zone

No.	Ν	E	No.	Ν	E	No.	Ν	E
5_1	6°58'36.31"N	79°55'32.43"E	5_21	6°59'31.19"N	79°55'42.33"E	5_41	6°59'15.89"N	79°56'21.32"E
5_2	6°58'39.60"N	79°55'29.31"E	5_22	6°59'24.69"N	79°55'46.52"E	5_42	6°59'15.05"N	79°56'20.14"E
5_3	6°58'40.10"N	79°55'27.78"E	5_23	6°59'24.03"N	79°55'47.78"E	5_43	6 °59'16.00"N	79°56'18.46"E
5_4	6°58'48.75"N	79°55'25.96"E	5_24	6°59'26.08"N	79°55'49.75"E	5_44	6°59'14.58"N	79°56'17.71"E
5_5	6°58'49.37"N	79°55'28.98"E	5_25	6°59'25.81"N	79°55'52.35"E	5_45	6°59'11.33"N	79°56'20.78"E
5_6	6°58'49.60"N	79°55'34.73"E	5_26	6°59'26.27"N	79°55'56.04"E	5_46	6°59'5.01"N	79°56'16.15"E
5_7	6°58'52.25"N	79°55'34.49"E	5_27	6°59'25.56"N	79°55'58.64"E	5_47	6°59'3.69"N	79°56'15.64"E
5_8	6°58'54.74"N	79°55'35.19"E	5_28	6°59'25.94"N	79°56'0.81"E	5_48	6°59'0.59"N	79°56'16.98"E
5_9	6°59'0.70"N	79°55'30.80"E	5_29	6°59'27.48"N	79°56'2.99"E	5_49	6°58'59.94"N	79°56'15.48"E
5_10	6°59'8.33"N	79°55'26.53"E	5_30	6°59'28.20"N	79°56'6.00"E	5_50	6°58'53.14"N	79°56'16.85"E
5_11	6°59'12.14"N	79°55'25.03"E	5_31	6°59'29.30"N	79°56'10.40"E	5_51	6°58'46.42"N	79°56'18.21"E
5_12	6°59'16.20"N	79°55'23.67"E	5_32	6°59'31.33"N	79°56'14.98"E	5_52	6°58'42.76"N	79°56'18.09"E
5_13	6°59'18.65"N	79°55'23.45"E	5_33	6°59'27.48"N	79°56'18.93"E	5_53	6°58'40.03"N	79°56'16.43"E
5_14	6°59'18.55"N	79°55'29.87"E	5_34	6°59'27.63"N	79°56'21.05"E	5_54	6°58'37.38"N	79°56'15.91"E
5_15	6°59'20.99"N	79°55'29.10"E	5_35	6°59'25.44"N	79°56'21.84"E	5_55	6°58'33.60"N	79°56'12.43"E
5_16	6°59'21.11"N	79°55'31.65"E	5_36	6°59'25.28"N	79°56'24.43"E	5_56	6°58'30.93"N	79°56'10.70"E
5_17	6°59'22.26"N	79°55'32.32"E	5_37	6°59'21.78"N	79°56'23.82"E	5_57	6°58'30.46"N	79°56'5.47"E
5_18	6°59'23.50"N	79°55'37.12"E	5_38	6°59'21.07"N	79°56'24.58"E	5_58	6°58'27.72"N	79°55'59.61"E
5_19	6°59'25.10"N	79°55'37.25"E	5_39	6°59'19.09"N	79°56'24.49"E	5_59	6°58'25.16"N	79°55'56.30"E
5_20	6°59'28.33"N	79°55'39.91"E	5_40	6°59'15.23"N	79°56'22.99"E	5_60	6°58'22.74"N	79°55'52.39"E
5_61	6°58'23.42"N	79°55'49.20"E	4_16	6°58'28.14"N	79°55'42.33"E	4_20	6°58'31.89"N	79°55'37.19"E
5_62	6°58'26.23"N	79°55'45.91"E	4_17	6°58'28.85"N	79°55'40.95"E	4_21	6°58'31.40"N	79°55'36.25"E
5_63	6°58'26.30"N	79°55'44.39"E	4_18	6°58'29.25"N	79°55'39.57"E	4_22	6°58'31.85"N	79°55'34.56"E
			4_19	6°58'30.77"N	79°55'38.28"E	4_23	6°58'34.32"N	79°55'31.00"E

46.2. High Density Education Zone

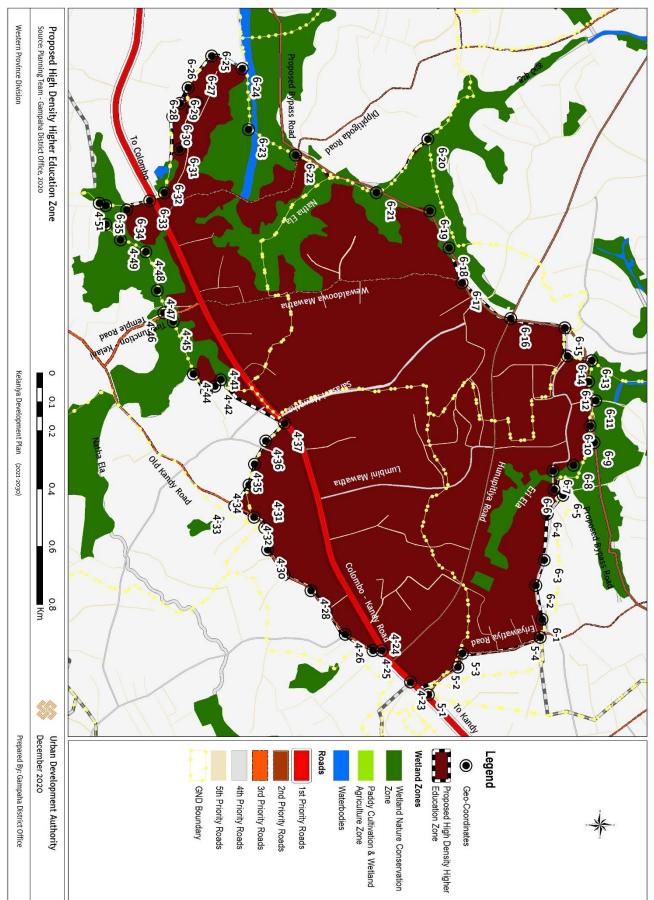
Northern, starting from 6°58'45.41"N, 79°54'50.02"E (6-16) point located in New Hunupitiya Road and connected to 6°58'51.74"N, 79°54'54.23"E (6-14) point in the ground through the center line of the road near Dinigiyawatta ground toward northern, connected to 6°58'54.43"N, 79°54'54.74"E (6-13) point in the ground and through the southern boundary of Eri Ela wetland connected to 6°58'50.14"N, 79°55'7.19"E (6-7) point in the ground. From the last mention ground coordinate on the road to 6-5 coordinate mention in the annexure connected through the center line of the road and from that point connected to 5-4 point that mention in the coordinate via the center line of the Dewasumithrarama Mawatha,

Eastern, from the above last point connected to 6°58'36.31"N, 79°55'32.43"E (5-1) point in Colombo – Kandy road via center line of the Eriyawetiya Road and from that point connected to 6°58'31.11"N, 79°55'27.45"E (4-24) point in the ground through the center line of the Colombo – Kandy Road.

Southern, from last point mention in the eastern boundary to 6°58'16.86"N, 79°55'12.45"E (4-32) point in the ground through the center line of the Old Kandy Road, and from that point to 6°58'20.25"N, 79°55'1.86"E (4-37) point in the Colombo – Kandy Road connected again through the imaginary line and from that connected to 6°57'59.57"N, 79°54'37.10"E (4 -51) point in the ground through the imaginary line drown via adjacent wetland area.

Western, from the last point mention in the southern boundary to 6°58'15.47"N, 79°54'21.90"E (6-24) point in the ground connected through the western boundary of Dalugama Grama Niladhari Division, again starting that point connected to 6°58'36.13"N, 79°54'29.80"E (6-20) point in the ground through Mudun-Ela wetland and South-East boundary of the Dippitigoda Grama Niladhari Division. And from last point connected to 6°58'38.51"N, 79°54'42.07"E (6-18) point in the ground through the North-West boundary of the Wewaldoowa GND and from that connected to 6°58'45.41"N, 79°54'50.02"E (6-16) point in the ground through the imaginary line drown connecting Hunupitiya Road again.

High Density High Education Zone

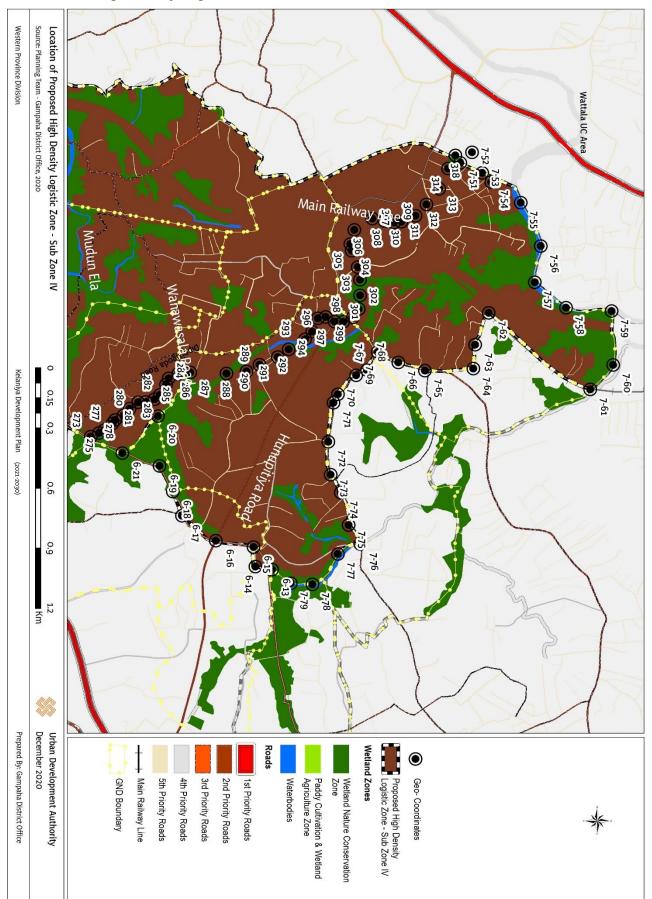


46.3. High Density Logistic Zone

Northern, from 6°59'34.24"N, 79°53'55.04"E (7-55) point in the ground to 6°59'48.71"N, 79°54'12.61"E (7-59) connected through the center line of the Kalu Ela, from that point to 6°59'45.33"N, 79°54'25.36"E (7-61) point in the ground connected through northern boundary of Welegoda Grama Niladhari Division, and up to 6°59'29.05"N, 79°54'12.92"E (7-62) point in the ground connected through the center line of the main railway line, and from that point to 6°59'11.31"N, 79°54'19.30"E (7-67) point in the ground connected through eastern boundary of the Welegoda Grama Niladhari Division, and connected to 6°58'51.44"N, 79°54′51.05″E (6-15) point in the ground through northern and eastern boundary of the Hunupitiya Grama Niladhari Division, Eastern, from the last point mention in the northern boundary connected to 6°58'45.41"N, 79°54'50.02"E (6-16) point in the ground through the center line of the road laying near Dingiyawatta ground and linked to Hunupitiya road, and from that point to 6°58'36.13"N, 79°54'29.80"E (6-20) point in the ground connected through the imaginary line laying through the Wewaldoowa wetland area, and from that to 6°58'21.43"N, 79°54'31.63"E (6-22) point in the ground connected through western boundary of the Wewaldoowa Natha Ela wetland area, and up to 6°58'16.17"N, 79°54'28.77"E (6-23) point in the ground connected through the center line of the Mudun Ela and connected to 6°58'15.47"N, 79°54'21.90"E (6-24) and from that point to 6°57'59.30"N, 79°54'36.81"E (4-52) point in the ground connected through the eastern boundary of Himbutuwelgoda Grama Niladhari Division, Southern, from the last point mention in the Eastern boundary to 6°57'53.77"N, 79°54'16.58"E (4-55) point in the ground connected through the imaginary line and from that point to 6°57'46.41"N, 79°54'1.93"E (4-61) point in the ground connected through the southern boundary of Humbutuwelgoda Grama Niladhari Division, Western, from that last point mention in the southern boundary to 6°58'11.36"N, 79°53'53.21"E (7-7) point in the ground connected through Western boundary of the Himbutuwelgoda Grama Niladhari Division, and from that point to 6°58'57.23"N, 79°53'52.24"E (7-45) point in the ground connected through Western boundary of the Wanawasala West Grama Niladhari Division,

and connected 6°59'2.31"N, 79°53'51.41"E (7-47) point in the ground through the Western boundary of the Hunupitiya South Grama Niladhari Division, from that point to 6°59'34.24"N, 79°53'55.04"E (7-55) point in the ground connected through the western boundary of Welegoda GND and connected to the starting point. This entire zone is divided to four sub-zones as described in bellow and boundary coordinates is shown in annexure 03.

- Sub-Zone 1 the area spread both side of the Colombo Kandy road from Western boundary of Kelaniya PS to Tire junction and from the north up to Mudun Ela.
- Sub-Zone 2 The area covered by Mudun Ela from southern, western boundary of the Kelaniya PS from the western, Wanawasala road and Dippitigoda road from the Eastern and Northern boundary and the area not included to 100 m boundary of Dippitigoda and Wanawasala Road.
- Sub-Zone 3 The covered by 100m buffer of both side of the Dippitigoda Road from Natha Ela Canal to Hunupitiya Road, Hunupitiya Road from Hunupitiya Town to Western boundary of Kelaniya PS area and Wanawasala Road.
- S ub-Zone 4 The area spread toward northern part of the Kelaniya PS area from Dippitigoda road and Hunupitiya Road excepting 100m buffer of both side of the road, Padiliyathuduwa road from Northern, North Western boundary of Kelaniya PS area from Western.



Location of High-Density Logistic Zone – Sub Zone I

211	79.90120000000	6.97753000000	261	79.9072000000	6.97349000000	7_33	6°58'43.03'N	79°53'39.32"E
212	79.9006000000	6.97733000000	262	79.907300000	6.973370000	7_34	6°58'44.18"N	79°53'39.76"E
213	79.9003000000	6.97703000000	263	79.907300000	6.972840000	7_35	6°58'46.28'N	79°53'40.10"E
214	79.8998000000	6.97681000000	264	79.907400000	6.972660000	7_36	6°58'45.96'N	79°53'41.76"E
215	79.8994000000	6.97638000000	265	79.907400000	6.972510000	7_37	6°58'47.63"N	79°53'42.87"E
216	79.8990000000	6.97611000000	266	79.907500000	6.972290000	7_38	6°58'49.91'N	79°53'43.99"E
217	79.8987000000	6.97601000000	267	79.907700000	6.972100000	7_39	6°58'50.87"N	79°53'46.34"E
218	79.89820000000	6.97571000000	268	79.90780000	6.972030000	7_40	6°58'52.34"N	79°53'47.84"E
219	79.8974000000	6.97558000000	429	79.898100000	6.969220000	7_41	6°58'51.68"N	79°53'49.57"E
220	79.89710000000	6.97552000000	432	79.89800000	6.97004000	7_42	6°58'52.37"N	79°53'50.47"E
221	79.8967000000	6.97531000000	433	79.902200000	6.970420000	7_43	6°58'52.63'N	79°53'50.98"E
222	79.8965000000	6.97498000000	434	79.903700000	6.970840000	7_44	6°58'56.56'N	79°53'50.67"E
223	79.8965000000	6.97460000000	435	79.90490000	6.970940000	7_45	6°58'57.23"N	79°53'52.24"E
224	79.8966000000	6.97422000000	436	79.907800000	6.971230000	7_46	6°59'1.64"N	79°53'50.16"E
225	79.8968000000	6.9739800000	437	79.90820000	6.971890000	7_47	6°59'2.31"N	79°53'51.41"E
226	79.897000000	6.97387000000	1724	79.90590000	6.971150000	7_48	6°59'6.23"N	79°53'50.84"E
227	79.8974000000	6.97377000000				7_49	6°59'14.29'N	79°53'46.00'E
228	79.8979000000	6.9738000000						
229	79.8982000000	6.97387000000						
230	79.8986000000	6.9739600000						
231	79.8991000000	6.97415000000						
232	79.8994000000	6.97432000000						
233	79.8998000000	6.9744600000						
234	79.9002000000	6.9746800000						
235	79.9005000000	6.9748200000						
236	79.9008000000	6.9750800000						

Boundary Coordinates - High Density Logistic Zone - Sub Zone III

No.	х	у	No.	х	у	No.	х	у
187	79.897700000	6.98711000	243	79.902800000	6.97610000	300	79.903400000	6.98562000
188	79.897400000	6.98644000	244	79.903200000	6.97631000	301	79.902800000	6.98568000
189	79.897500000	6.98623000	245	79.903500000	6.97668000	302	79.902100000	6.98567000
190	79.897700000	6.98554000	246	79.903900000	6.97664000	303	79.901500000	6.98557000
191	79.898000000	6.98498000	247	79.904300000	6.97665000	304	79.900800000	6.98530000
192	79.898500000	6.98426000	248	79.904800000	6.97676000	305	79.900500000	6.98524000
193	79.898800000	6.98383000	249	79.904900000	6.97637000	306	79.899900000	6.98542000
194	79.899700000	6.98356000	250	79.905200000	6.97600000	307	79.899300000	6.98622000
195	79.900500000	6.98340000	251	79.905600000	6.97567000	308	79.899500000	6.98676000
196	79.901400000	6.98356000	252	79.905800000	6.97553000	309	79.899500000	6.98718000
197	79.901900000	6.98376000	253	79.905900000	6.97534000	310	79.899500000	6.98751000
198	79.902200000	6.98272000	254	79.905900000	6.97514000	311	79.899200000	6.98814000
199	79.902900000	6.98228000	255	79.906100000	6.97490000	312	79.898700000	6.98863000
200	79.903600000	6.98194000	256	79.906300000	6.97458000	313	79.898000000	6.98919000
201	79.904500000	6.97990000	257	79.906400000	6.97439000	314	79.897100000	6.98958000
202	79.904500000	6.97855000	258	79.906600000	6.97417000	316	79.895800000	6.98857000
203	79.903900000	6.97857000	259	79.906800000	6.97396000	317	79.895800000	6.98804000
204	79.903400000	6.97858000	260	79.907000000	6.97371000	318	79.896500000	6.98991000
205	79.902700000	6.97845000	261	79.907200000	6.97349000	437	79.908200000	6.97189000
206	79.902500000	6.97830000	262	79.907300000	6.97337000	300	79.903400000	6.98562000
207	79.902500000	6.97813000	263	79.907300000	6.97284000	301	79.902800000	6.98568000
208	79.902100000	6.97788000	264	79.907400000	6.97266000	302	79.902100000	6.98567000
209	79.902100000	6.97777000	265	79.907400000	6.97251000	303	79.901500000	6.98557000
210	79.901600000	6.97753000	266	79.907500000	6.97229000	304	79.900800000	6.98530000
211	79.901200000	6.97753000	267	79.907700000	6.97210000	305	79.900500000	6.98524000
212	79.900600000	6.97733000	268	79.907900000	6.97201000	306	79.899900000	6.98542000
213	79.900300000	6.97703000	270	79.908400000	6.97230000	307	79.899300000	6.98622000
214	79.899800000	6.97681000	271	79.908800000	6.97308000	308	79.899500000	6.98676000
215	79.899400000	6.97636000	272	79.908900000	6.97327000	309	79.899500000	6.98718000

216	79.899000000	6.97609000	273	79.909200000	6.97372000	310	79.899500000	6.98751000
217	79.898700000	6.97601000	274	79.909000000	6.97407000	311	79.899200000	6.98814000
218	79.898400000	6.97585000	275	79.908900000	6.97431000	312	79.898700000	6.98863000
219	79.898000000	6.97568000	276	79.908600000	6.97467000	313	79.898000000	6.98919000
220	79.897100000	6.97555000	277	79.908500000	6.97479000	314	79.897100000	6.98958000
221	79.896700000	6.97531000	278	79.908300000	6.97516000	316	79.895800000	6.98857000
222	79.896500000	6.97498000	279	79.908000000	6.97544000	317	79.895800000	6.98804000
223	79.896500000	6.97460000	280	79.907700000	6.97582000	318	79.896500000	6.98991000
224	79.896600000	6.97422000	281	79.907600000	6.97616000	437	79.908200000	6.97189000
225	79.896800000	6.97398000	282	79.907500000	6.97654000			
226	79.896900000	6.97389000	283	79.907300000	6.97679000			
227	79.897400000	6.97377000	284	79.906900000	6.97706000			
228	79.897800000	6.97378000	285	79.906600000	6.97717000			
229	79.898100000	6.97386000	286	79.906400000	6.97760000			
230	79.898600000	6.97396000	287	79.906300000	6.97814000			
231	79.899100000	6.97415000	288	79.906400000	6.97975000			
232	79.899400000	6.97432000	289	79.906300000	6.98063000			
233	79.899800000	6.97446000	290	79.906000000	6.98121000			
234	79.900200000	6.97468000	291	79.905600000	6.98202100			
235	79.900500000	6.97482000	292	79.905300000	6.98251000			
236	79.900800000	6.97508000	293	79.904800000	6.98323000			
237	79.900900000	6.97533000	294	79.904400000	6.98355000			
238	79.901300000	6.97549000	295	79.903900000	6.98381000			
239	79.901600000	6.97572000	296	79.903800000	6.98415000			
240	79.902000000	6.97574000	297	79.904000000	6.98454000			
241	79.902300000	6.97581000	298	79.904000000	6.98493000			
242	79.902600000	6.97596000	299	79.903800000	6.98536000			

Boundary Coordinates - High Density Logistic Zone - Sub Zone IV

No.	Ν	E	No	Х	Y	No.	Х	Y
6_13	6°58'54.43"N	79°54'54.74"E	273	79.90920000000	6.97372000000	307	79.89930000000	6.98622000000
6_14	6°58'51.74"N	79°54'54.23"E	274	79.9090000000	6.97407000000	308	79.8995000000	6.98676000000
6_15	6°58'51.44"N	79°54'51.05"E	275	79.9089000000	6.97431000000	309	79.8995000000	6.98718000000
6_16	6°58'45.41"N	79°54'50.02"E	276	79.90860000000	6.97467000000	310	79.8995000000	6.98751000000
6_17	6°58'39.98"N	79°54'45.99"E	277	79.90850000000	6.97479000000	311	79.8992000000	6.98814000000
6_18	6°58'38.51"N	79°54'42.07"E	278	79.90830000000	6.97516000000	312	79.8987000000	6.98863000000
6_19	6°58'36.40"N	79°54'37.90"E	279	79.9080000000	6.97544000000	313	79.8980000000	6.98919000000
6_20	6°58'36.13"N	79°54'29.80"E	280	79.90770000000	6.97582000000	314	79.89710000000	6.98958000000
6_21	6°58'30.43"N	79°54'35.84"E	281	79.9076000000	6.97616000000	318	79.8965000000	6.98991000000
7_51	6°59'24.45"N	79°53'48.58"E	282	79.9075000000	6.97654000000	307	79.8993000000	6.98622000000
7_52	6°59'26.32"N	79°53'46.84"E	283	79.90730000000	6.97679000000	308	79.8995000000	6.98676000000
7_53	6°59'27.97"N	79°53'50.17"E	284	79.9069000000	6.97706000000			
7_54	6°59'29.41"N	79°53'51.68"E	285	79.9066000000	6.97717000000			
7_55	6°59'34.24"N	79°53'55.04"E	286	79.9064000000	6.97760000000			
7_56	6°59'37.36"N	79°54'2.06"E	287	79.9063000000	6.97814000000			
7_57	6°59'36.40"N	79°54'7.95"E	288	79.9064000000	6.97975000000			
7_58	6°59'41.41"N	79°54'12.08"E	289	79.9063000000	6.98063000000			
7_59	6°59'48.71"N	79°54'12.61"E	290	79.9060000000	6.98121000000			
7_60	6°59'48.98"N	79°54'21.37"E	291	79.90560000000	6.98202100000			
7_61	6°59'45.33"N	79°54'25.36"E	292	79.90530000000	6.98251000000			
7_62	6°59'29.05"N	79°54'12.92"E	293	79.90480000000	6.98323000000			
7_63	6°59'26.90"N	79°54'18.11"E	294	79.90440000000	6.98355000000			
7_64	6°59'26.60"N	79°54'22.01"E	295	79.90390000000	6.98381000000			
7_65	6°59'18.83"N	79°54'22.35"E	296	79.90380000000	6.98415000000			
7_66	6°59'14.61"N	79°54'21.02"E	297	79.9040000000	6.98454000000			
7_67	6°59'11.31"N	79°54'19.30"E	298	79.9040000000	6.98493000000			
7_68	6°59'9.61"N	79°54'22.28"E	299	79.90380000000	6.98536000000			
7_69	6°59'7.85"N	79°54'23.12"E	300	79.90340000000	6.98562000000			

7_70	6°59'4.92"N	79°54'26.21"E	301	79.90280000000	6.98568000000
7_71	6°59'4.23"N	79°54'27.59"E	302	79.90210000000	6.98567000000
7_72	6°59'3.40"N	79°54'33.92"E	303	79.90150000000	6.98557000000
7_73	6°59'3.79"N	79°54'39.29"E	304	79.9008000000	6.98530000000
7_74	6°59'5.41"N	79°54'42.19"E			
			305	79.9005000000	6.98524000000
7_75	6°59'6.66"N	79°54'47.45"E	306	79.89990000000	6.98542000000
7_76	6°59'8.55"N	79°54'50.55"E			
7_77	6°59'4.97"N	79°54'52.17"E			
7_78	6°59'0.89"N	79°54'57.09"E			
7_79	6°58'57.44"N	79°54'56.94"E			

46.4. High Density Residential Zone

Northern, starting from 6°59'45.33"N, 79°54'25.36"E (7-61) point in the ground at Center line of the main railway line to 6°59'22.18"N, 79°54'33.31"E (8-6) point in the ground connected through the Eastern boundary of Hunupitiya North Grama Niladhari division, and from that point to 6°59'5.68"N, 79°55'7.57"E (8-23) point in the ground connected through north and eastern boundary of the Hunupitiya North Grama Niladhari Division, from that point to 6°59'8.33"N, 79°55'26.53"E (5-10) point in the ground connected through the northern boundary of Eriyawetiya Grama Niladhari Division,

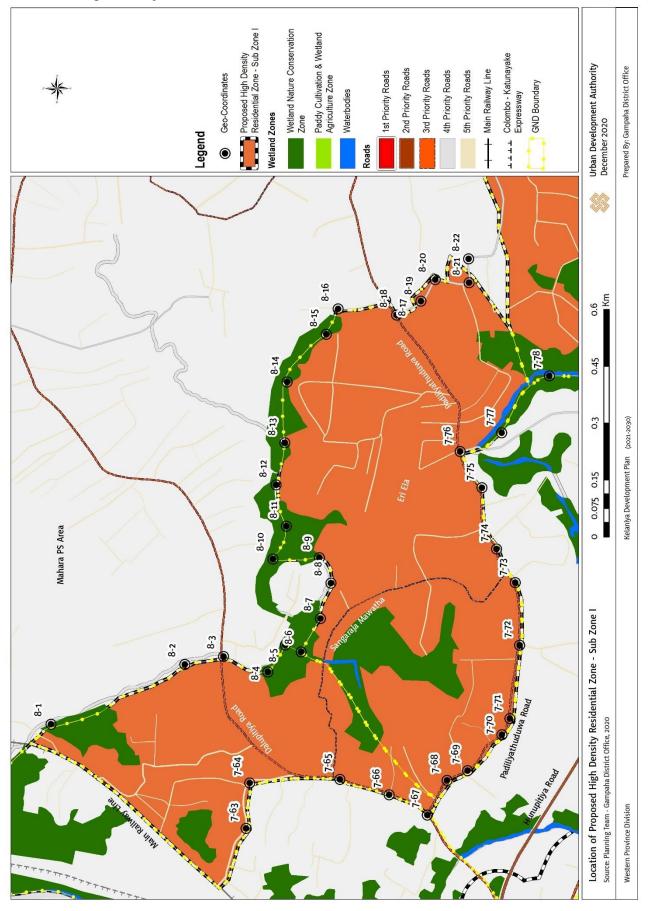
Eastern, from the last point mention in the Northern boundary to 6°58'49.60"N, 79°55'34.73"E (5-6) point in the ground connected through eastern boundary of Eriyawetiya Grama Niladhari Division,

Southern, from the last point mention in the eastern boundary to 6°58'48.75"N, 79°55'25.96"E (5-4) point in the ground connected via imaginary line toward western part of the area, and from that point to 6°58'50.14"N, 79°55'7.19"E (6-7) point in the ground through center line of the Nilwalla road, from that point to 6°58'54.43"N, 79°54'54.74"E (6-13) point in the ground through southern boundary of Eriyawetiya wetland area, and from that point to 6°59'8.55"N, 79°54'50.55"E (7-76) point in the ground connected through the center line of the Padiliyathuduwa road and after connected to 6°59'11.31"N, 79°54'19.30"E (7-67) point in the ground through the center line of the Wattala – Mahara road,

Western, from the last point mention in the Southern boundary to 6°59'29.05"N, 79°54'12.92"E (7-62) point in the ground connected through the center line of the Wattala – Mahara road and center line of the Range road, and connected starting point again through the center line of the Main railway line.

This zone is divided to two sub zones.

- Sub Zone -1- Hunupitiya North and Nahena Grama Niladhari Divisions areas
- Sub Zone -2- The area covered by North, East and Southern boundaries of Eriyawetiya GND and mention in boundary coordinate description.



46.5. Moderate Density Residential Zone

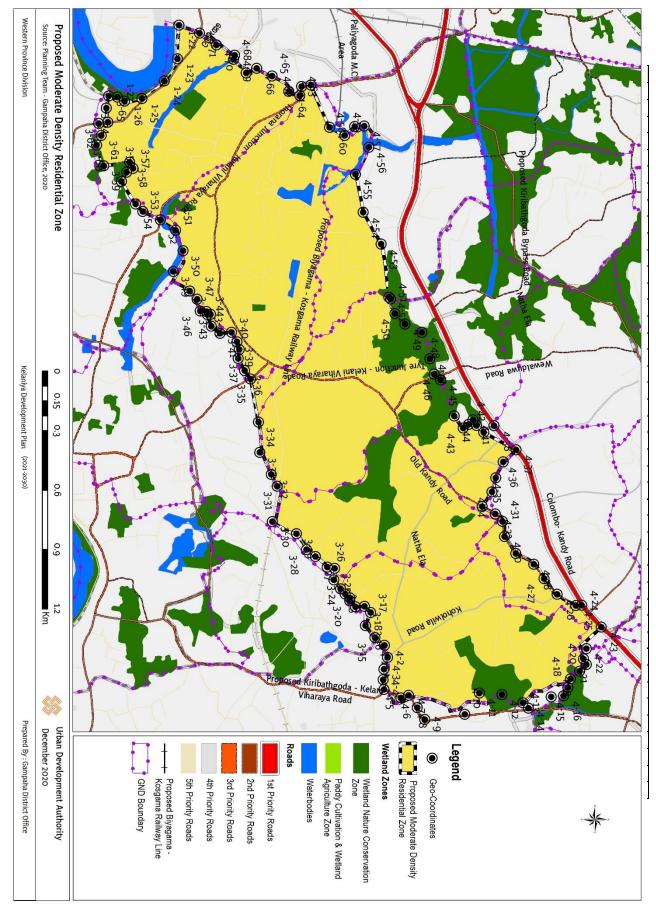
Northern, starting from the 6°57'55.95"N, 79°54'12.15"E (4-56) point in the ground at southern boundary of Himbutuwelgoda GND to 6°57'59.30"N, 79°54'36.81"E (4-52) connected through imaginary line and up to 6°58'16.64"N, 79°54'57.93"E (4-38) point in the ground connected through southern and eastern boundary of the Dalugama Grama Niladhari Division. From that last point to 6°58'16.86"N, 79°55'12.45"E (4-32) point in the ground linked via imaginary line and up to 6°58'31.11"N, 79°55'27.45"E (4-24) point in the ground connected through the center line of the Old Kandy Road and connected to 6°58'34.32"N, 79°55'31.00"E (4-23) point in the ground through the Centre line of the Colombo – Kandy Road,

Eastern, from the above last point in northern boundary to 6°58'31.89"N, 79°55'37.19"E (4-20) point in the ground connected through Centre line of the Ramasinghe Mawatha, from that point to 6°58'21.49"N, 79°55'43.49"E (4-13) point in the ground connected through western boundary of the Koholvila wetland area, and from that point 6°57'58.60"N, 79°55'41.34"E (4-5) point in the ground connected through eastern boundary of the Koholvila Grama Niladhari Division,

Southern, from the last point mention in the Eastern boundary to 6°57'59.18"N, 79°55'36.07"E (4-2) point in the ground connected through the Centre line of the Koholvila Road, and from that point to 6°57'40.23"N, 79°55'13.76"E (3-30) point near Polhena ground connected through imaginary line, after from Polhena ground to 6°57'37.90"N, 79°54'57.38"E (3-34) point in the ground is connected via southern boundary of the Dalugama and Nungamugoda GND and to 6°57'36.58"N, 79°54'50.30"E (3-35) connected through Centre line of the Pasihena Road and from that point to 6°57'23.85"N, 79°54'32.65"E (3-49) point in the ground connected through center line of the Pasihena Road and from that point to 6°57'23.85"N, 79°54'32.65"E (3-49) point in the ground connected through eastern boundary of the Wedamulla Grama Niladhari Division. And from this last point to 6°57'21.73"N, 79°54'24.16"E (3-52) point in the ground connected through center line of the Kumbal Oya, and up to 6°57'11.95"N, 79°54'10.28"E (3-62) point at the center of Colombo – Biyagama Road the ground linked via imaginary line, and through the center line of the Colombo – Kandyroad connected to 6°57'11.56"N, 79°54'8.32"E (3-63) point and from that point to 6°57'12.82"N, 79°54'5.80"E (3-65) point at Kelani River North Bund connected through the center line of the Mewalla Mawatha,

Western, from that last point mention in the southern boundary to 6°57'24.73"N, 79°53'52.14"E (1-22) point in the ground connected through the Centre line of the road laying via the Kelani River north bund, and from that point to starting point in the northern boundary connected through the western boundary of Pethiyagoda and Wedamulla Grama Niladhari Divisions.

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Location of Moderate Density Residential Zone

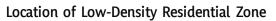
46.6. Low Density Residential Zone

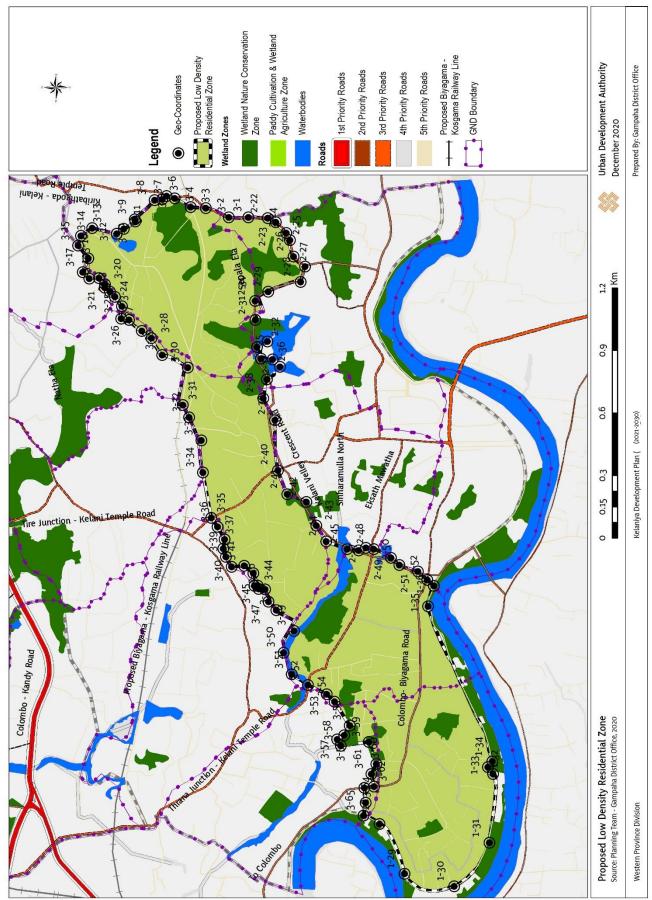
Northern, starting from the 6°57'12.82"N, 79°54'5.80"E (3-65) point in the ground in center line of the road in Kelani river north bund to 3-63 point in the ground connected through the center line of the Mewalla road, and connected to 6°57'11.95"N,79°54'10.28"E (3-62) point in the ground through center line of the Colombo – Biyagama road, from that point to 6°57'21.73"N, 79°54'24.16"E (3-52) point in the ground connected through imaginary line laying near the southern boundary of Pethiyagoda Grama Niladhari Division. And up to 6°57'23.85"N, 79°54'32.65"E (3-49) point in the ground connected through the center line of the Kumbal Oya, and from that point to 6°57'37.90"N, 79°54'57.38"E (3-34) point in the ground connected through the South-Eastern and Eastern boundary of the Wedamulla Grama Niladhari Division, from that point to 6°57'57.10"N, 79°55'32.82"E (3-15) point in the ground connected Northern part of the Polhena GND through the imaginary line,

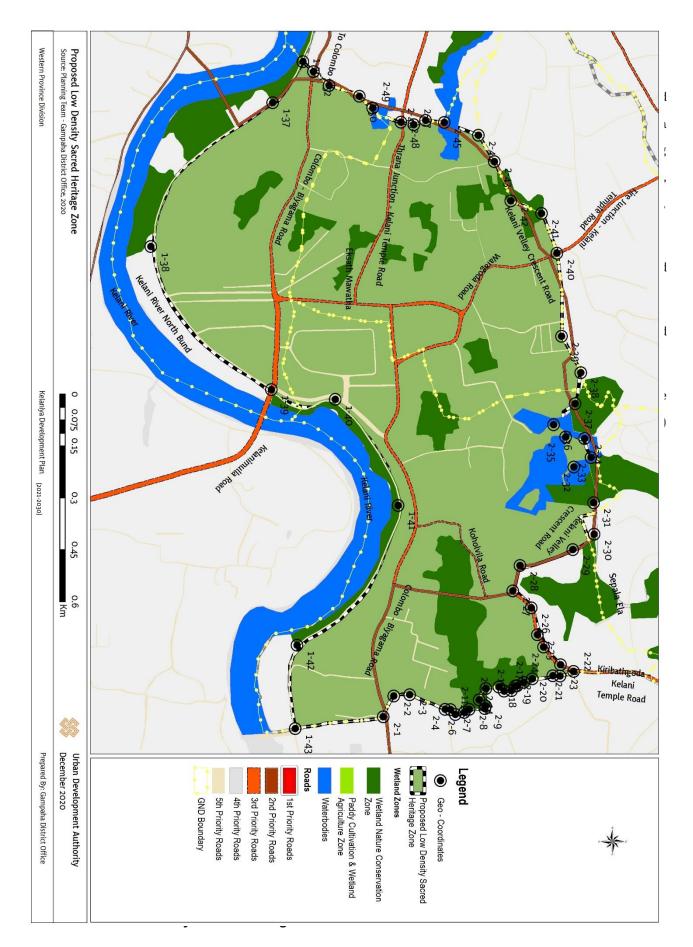
Eastern, from the last point mention in Northern boundary to 6°57'28.03"N, 79°55'37.16"E (2-22) point in the ground connected through the eastern boundary of Polhena and Kelaniya Grama Niladhari Division,

Southern, from the above point to 6°57'22.27"N, 79°55'29.59"E (2-27) point in the ground connected through the center line of the Koholvila road and from that point to 6°57'29.94"N, 79°55'24.23"E (2-30) point in the ground connected through the center line of Ranaviru Lasantha Sanjeewa Mawatha and up to 6°57'28.64"N, 79°55'9.00"E (2-38) point in the ground connected through the Sepala Ela Wetland area and from that point to 6°57'2.43"N, 79°54'39.74"E (1-36) point in Kelani river north bund connected through the southern boundary of Galboralla GND and Eastern boundary of Pilapitiya GND

Western, from the last point mention in Southern boundary to starting point in the Northern boundary connected through the center line of the road laying via Kelani river north bund.







No	Ν	E	No	Ν	E	No	Ν	E
2_1	6°57'10.11"N	79°55'41.48"E	2_21	6°57'26.74"N	79°55'37.61"E	2_41	6°57'24.93"N	79°54'54.01"E
2_2	6°57'11.09"N	79°55'39.52"E	2_22	6°57'28.03"N	79°55'37.16"E	2_42	6°57'22.03"N	79°54'52.82"E
2_3	6°57'12.58"N	79°55'39.40"E	2_23	6°57'26.79"N	79°55'36.54"E	2_43	6°57'20.47"N	79°54'49.13"E
2_4	6°57'15.93"N	79°55'40.77"E	2_24	6°57'25.19"N	79°55'34.87"E	2_44	6°57'18.97"N	79°54'46.65"E
2_5	6°57'16.43"N	79°55'40.80"E	2_25	6°57'24.60"N	79°55'33.73"E	2_45	6°57'15.75"N	79°54'45.44"E
2_6	6°57'16.87"N	79°55'41.23"E	2_26	6°57'24.03"N	79°55'31.18"E	2_46	6°57'13.98"N	79°54'45.25"E
2_7	6°57'17.73"N	79°55'41.05"E	2_27	6°57'22.27"N	79°55'29.59"E	2_47	6°57'12.87"N	79°54'45.65"E
2_8	6°57'18.20"N	79°55'40.76"E	2_28	6°57'22.95"N	79°55'27.19"E	2_48	6°57'11.68"N	79°54'45.43"E
2_9	6°57'19.66"N	79°55'40.69"E	2_29	6°57'27.92"N	79°55'25.68"E	2_49	6°57'9.01"N	79°54'44.10"E
2_10	6°57'19.73"N	79°55'40.44"E	2_30	6°57'29.94"N	79°55'24.23"E	2_50	6°57'7.75"N	79°54'42.98"E
2_11	6°57'19.14"N	79°55'39.86"E	2_31	6°57'29.87"N	79°55'21.26"E	2_51	6°57'4.90"N	79°54'41.98"E
2_12	6°57'19.75"N	79°55'38.80"E	2_32	6°57'28.02"N	79°55'17.90"E	2_52	6°57'3.43"N	79°54'40.67"E
2_13	6°57'20.99"N	79°55'38.67"E	2_33	6°57'29.62"N	79°55'17.01"E	1_36	6°57'2.43"N	79°54'39.74"E
2_14	6°57'21.47"N	79°55'39.04"E	2_34	6°57'29.01"N	79°55'15.21"E	1_37	6°56'59.60"N	79°54'43.60"E
2_15	6°57'22.18"N	79°55'38.99"E	2_35	6°57'27.24"N	79°55'15.07"E	1_38	6°56'48.15"N	79°54'57.19"E
2_16	6°57'22.55"N	79°55'38.55"E	2_36	6°57'26.09"N	79°55'13.91"E	1_39	6°56'59.52"N	79°55'10.65"E
2_17	6°57'22.70"N	79°55'38.54"E	2_37	6°57'28.11"N	79°55'11.94"E	1_40	6°57'5.53"N	79°55'11.57"E
2_18	6°57'23.34"N	79°55'38.23"E	2_38	6°57'28.64"N	79°55'9.00"E	1_41	6°57'11.47"N	79°55'21.55"E
2_19	6°57'24.13"N	79°55'37.89"E	2_39	6°57'26.83"N	79°55'5.57"E	1_42	6°57'1.98"N	79°55'34.74"E
2_20	6°57'26.06"N	79°55'37.58"E	2_40	6°57'26.39"N	79°54'57.74"E	1_43	6°57'1.82"N	79°55'42.61"E

Boundary Coordinates - Low Density Sacred Heritage Zone

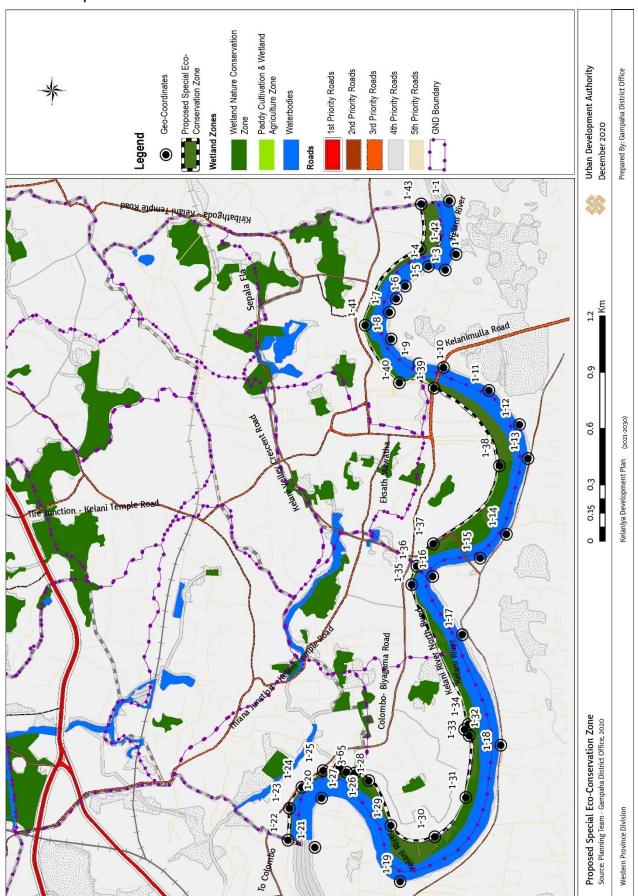
46.8. Special Eco Conservation Zone

Northern, starting from the 6°57'24.73"N, 79°53'52.14"E (1-22) point in the ground to 6°57'1.82"N, 79°55'42.61"E (1-43) point in the ground at the end of eastern boundary of Kelaniya PS connected through the center line of the road laying via Kelani rive r north bund and,

Eastern, from the last point mention in the Northern boundary to 6°56'56.89"N, 79°55'43.16"E (1-1) at the middle of the Kelani river connected through an imaginary line,

Southern, from the last point mention in the Eastern boundary to 6°57'20.03"N, 79°53'50.88"E (1-21) point in the Kelani river connected through the center line of the Kelani river which is the southern boundary of the Kelaniya PS area,

Western, from the last point mention in the southern boundary to stating point 6°57'24.73"N, 79°53'52.14"E (1-22) in the ground connected through the center line of the road laying via Kelani river north bund.



Location of Special Eco-Conservation Zone

Annexure 47: Permissible uses for Zones

			1				1		
Use			High Density Higher Education Zone	High Density Logistic Zone	High Density Residential Zone	Moderate Density Residential Zone	Low Density Residential Zone	Low Density Sacred Heritage Zone	Special Eco- Conservation Zone
	Housing Units	✓	✓	✓	✓	✓	✓	✓	×
	Apartment Complex (Housing)	√	~	×	✓	~	×	×	×
	Hostel	✓	✓	√	~	✓	~	✓	×
Residential	Quarters	✓	✓	√	✓	✓	✓	×	×
	Adult / Disabled Homes	×	×	×	~	~	×	~	×
	Children's Home	×	×	×	\checkmark	\checkmark	×	\checkmark	×
	Child Care Centers		✓	~	~	~	~	~	×
	Hospitals	~	×	~	×	×	×	×	×
	Medical Treatment Centers	~	~	~	~	~	✓	~	×
	Medical Consulting Service Centers	~	~	\checkmark	\checkmark	\checkmark	~	~	×
Health	Child and Maternity Clinics	~	\checkmark	\checkmark	~	~	\checkmark	~	×
	Animal Hospitals	~	×	~	×	~	×	×	×
	<i>Veterinary Clinics and Treatment</i> <i>Centers</i>	~	~	\checkmark	\checkmark	\checkmark	~	\checkmark	×
	Ayurvedic Medical Centers	~	~	~	~	~	~	~	×
	Pre-Schools	×	~	×	~	✓	~	~	×
	Primary Schools	×	~	×	~	~	✓	~	×
	Secondary Schools	×	~	×	√	~	~	~	×
	Tertiary Education Centers	×	✓	✓	×	√	×	×	×
Educational	Technical Collages/ Vocational Training Centers.	×	~	~	\checkmark	√	~	×	×
	Research and Development Centers	×	✓	✓	✓	✓	✓	×	×
	Private Tuition Classes	×	· √	*	• •	• •	· ✓	×	~ ×
	Art Centre / Dance Academy	×	· ✓	~	· ✓	· ✓	· ✓	~	~ ×
	Office	· ✓	· ·	· •	· •	· •	· •	· •	×
	Office Complex	· •	· ✓	· ✓	×	· ✓	×	· · ·	×
	Professional Office	√	~	~	~	\checkmark	~	×	×
Institutional	Banks, Insurance & Financial Institutions	~	~	✓	~	√	~	~	×
	Automated Money Transfer Centers (ATM)	~	~	~	~	~	~	~	×
Contraction	<i>Community Development Centers</i>	~	~	√	√	√	~	~	×
Social services	Social and Cultural Centers	×	✓	~	√	√	✓	√	×
and public amenities	Religious centers	×	▼ ✓	*	v √	v √	v √	✓ ✓	×
antenilles	Auditoriums and Conference Halls	×	▼ ✓	×	×	✓ ✓	v √	✓ ✓	× ×
	AUUTIONUMS AND CONTENENCE HAlls	~	v	v	~	v	v	v	~

	Libraries	×	√	\checkmark	\checkmark	✓	\checkmark	✓	×
	Rehabilitation centers	×	×	×	×	×	×	×	×
	Crematoriums	✓	×	✓	✓	✓	✓	×	×
	Cemeteries	×	×	×	×	×	×	×	×
	Shops	✓	√	✓	✓	✓	✓	✓	×
	Supermarkets	✓	✓	\checkmark	✓	✓	✓	✓	×
	Shopping Malls	✓	✓	✓	✓	✓	✓	×	×
	Restaurants /Cafeterias	✓	✓	✓	✓	✓	✓	✓	×
	Open Markets	✓	✓	\checkmark	✓	✓	✓	✓	×
	, Pharmacies	✓	✓	✓	✓	✓	✓	✓	×
	Laboratory Services and Collection	✓	✓	✓	✓	✓	✓	✓	×
	Centers								
	Wholesale stores	\checkmark	✓	\checkmark	\checkmark	✓	✓	×	×
	Warehouse	×	×	✓	×	×	×	×	×
	Customer Service Centers	✓	\checkmark	✓	\checkmark	✓	\checkmark	✓	×
	Meat and fish stalls	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	×	×
	Liquor outlets	✓	×	✓	\checkmark	✓	✓	×	×
Commercial	, Funeral Hall	~	×	\checkmark	✓	~	✓	~	×
	Funeral Hall with Ceremony Halls	✓	×	\checkmark	\checkmark	✓	\checkmark	×	×
	Hardware	✓	\checkmark	✓	\checkmark	✓	\checkmark	✓	×
	Filling stations	\checkmark	✓	\checkmark	✓	✓	\checkmark	✓	×
	Filling stations with vehicle service	✓	✓	✓	√	✓	√	×	×
	centers								
	Filling stations and malls	✓	✓	√	✓	✓	✓	✓	×
	Gas stations & Electric Charging	✓	✓	\checkmark	√	✓	✓	✓	×
	Stations								
	Communication towers on buildings	✓	✓	\checkmark	×	✓	\checkmark	×	×
	Communication towers	✓	~	√	\checkmark	✓	√	×	×
	Multi-storied Vehicle Park	✓	~	✓	\checkmark	✓	√	✓	×
	Open Vehicle Park	✓	✓	✓	✓	✓	✓	✓	×
	Vehicle Showrooms	✓	\checkmark	✓	×	✓	\checkmark	×	×
	Resorts	\checkmark	×						
	Guest Houses	✓	✓	✓	√	✓	√	✓	×
	Rooms	\checkmark	×	\checkmark	√	✓	\checkmark	×	×
Tourism	To urist Hotels	×	✓	×	×	✓	×	✓	×
	City Hotel	✓	✓	×	\checkmark	✓	✓	✓	×
	To urist Information Centers	✓	✓	√	✓	✓	✓	✓	×
	Ayurvedic Panchakarma Center	✓	✓	\checkmark	√	✓	✓	✓	×
	Cabana Hotels	×	✓	√	✓	✓	×	×	\checkmark
	Mining & Mining Extraction Industries	×	×	×	×	×	×	×	×
	Metal Products & foundries related	×	×	\checkmark	×	×	×	×	×
	extraction industries								
	Oil refineries, petroleum-based	×	×	\checkmark	×	×	×	×	×
	chemicals & distillation industries								
	Chemicals, polythene, plastics,	×	×	\checkmark	×	×	×	×	×
	rubber & glass-based industries								
Manufacturing industries	Cement, concrete and ceramic based	×	×	\checkmark	×	×	×	×	×
	products industries								
	Clay products industries	×	×	√	✓	✓	√	✓	×
	Natural fiber-based manufacturing	×	×	\checkmark	~	~	\checkmark	~	×
	industries								
	Textile, Clothing & Leather Products Industries	×	×	\checkmark	~	~	×	×	×
		×	×	√	×	×	×	×	×
	Electrical & Electronics equipment related industries	*	~	v	~	~	~	*	~
	i cialeu muusliles								

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	Heavy Machinery & Assembly	×	×	\checkmark	×	×	×	×	×
	industries				-		-		-
	Paper Products and Printing	×	×	✓	×	×	×	×	×
	Industries								
	Wood / Wood Products & Furniture	×	×	\checkmark	✓	✓	×	×	×
	Manufacturing Industries								
	Food and non-alcoholic beverage	×	×	\checkmark	\checkmark	\checkmark	×	×	×
	industries								
	Alcohol / local pharmaceuticals,	×	×	~	×	×	×	×	×
	spirits & extracts								
	Recycling activities related industries	×	×	✓	×	×	×	×	×
	Industrial Infrastructure Facilities	×	×	\checkmark	×	×	×	×	×
	Centers								
_	Homestead Industries	√	~	~	✓	✓	✓	✓	×
Service	Vehicle Service Centers	✓	✓	 ✓ 	✓	✓	✓	✓	×
Industries	Vehicle Repair Centers / Spray	~	×	~	×	~	×	×	×
	Painting Centers	\checkmark	~	~	✓	~	✓	~	×
	Taxi Service Centers	✓ ✓	✓ ✓	✓ ✓	v √	v √	▼ ✓	▼ ✓	-
	Laundries	✓ ✓		✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	×
	Grinding & Rice Mills	✓ ✓	× ×	✓ ✓	×	✓ ✓	×	✓ ×	× ×
	Welding Shops/Lathe workshops Electronic Equipment Repair Centers	• √	~	▼ ✓	~	▼ ✓	~	~	×
	Electronic Equipment Repair Centers	v	v	v	Ť	v	v	v	~
Utility Services	Railway and Bus Terminals	~	~	~	√	√	✓	✓	×
Leisure and	Pocket Park	~	~	~	~	~	~	~	~
Recreational Services	Mini Park	✓	✓	√	✓	✓	✓	✓	\checkmark
S ET VILES	Local Park	✓	✓	\checkmark	✓	✓	✓	✓	✓
	Community Park	✓	✓	\checkmark	✓	✓	✓	✓	✓
	To wn Park	\checkmark	\checkmark	~	\checkmark	\checkmark	~	\checkmark	\checkmark
	Central Urban Park/City Park	~	~	~	~	~	~	~	~
	Regional Park	~	~	~	~	~	~	~	~
	Linear Park	~	~	\checkmark	\checkmark	~	~	\checkmark	\checkmark
	Indoor Sports Stadiums	✓	✓	✓	✓	✓	✓	×	×
	Theaters	✓	~	~	✓	✓	✓	×	×
	Clubs	✓	×	✓	×	✓	×	×	×
	Art Galleries / Museums	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	~	\checkmark	×
	Open Theaters	\checkmark	\checkmark	~	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Boat Jetty / Anchoring	×	×	×	×	×	×	×	✓
	Safe bathing places	×	×	×	×	×	×	×	\checkmark
Agricultural	Livestock/ Agricultural farms with construction	×	×	×	×	×	~	~	×
	Permission is given for the renewal of	×	×	×	×	×	~	~	×
	existing inland fishing areas								
L									

Annexure 48: Definitions of Permissible uses for Zones

Uses		Definition
	Housing units	Sleeping, Cooking and Sanitary Complete Unit for Independent Residence, A
		building or part of a building that contains a room or room cluster.
	Apartment complexes	Buildings with a horizontal or vertical extension of a unit or unit of residence
		in a permanently occupied area
	Hostels	Vertical or horizontal extension buildings that provide residential facilities for
		a limited time
Residential	Quarters / quarters	Vertical or horizontal extension buildings that provide residential
		accommodation to a particular workplace
	Adult / Disabled Homes	Horizontal or vertical extension buildings with basic residential facilities for
		the care of the aged and disabled.
	Children's Homes	Buildings with horizontal or vertical extension with basic residential facilities
		for children under 18 years
	Child Care Centers	Buildings with temporary residential care for children (less than 24 hours)
	Hospitals	Laboratories, pharmacies, nursing care, rehabilitation, surgical services,
		outpatient and internal patient care, training centers, administrative and
		staffing facilities, with all or several buildings providing treatment for
		outpatient and inpatient
	Medical Centers	At least one physician serving a pharmacist and an outpatient center
	Medical Consulting &	Buildings to provide specialized consultancy services
	Channeling Service	
Health	Centers	
	Child and Maternity	Centers that provide basic health care and counseling services for children and
	Clinics	pregnant mothers
	Animal Hospital	Veterinary Service Centers that conduct outpatient and inpatient treatment /
		clinics
	Veterinary Clinics and	OPD care and veterinary service centers
	Treatment Centers	
	Ayurvedic Medical	Centers served by a registered doctor or a few doctors in the Government
	Centers	Ayurvedic Medical Council who treat traditional indigenous medicine.
Educational	Early Childhood	Buildings to provide a formal education including early childhood
	Development Centers	development activities before admitting children to grade one

	Primary Education	School buildings with facilities to provide a formal education from grade one
	Centers	to grade five
	Secondary Education	School buildings with facilities to provide formal education from grade one to
	Centers	grade thirteenth and sixth to thirteenth
	Tertiary Education	Higher Education Facilities, Any Universities, Open Universities and Higher
	Centers	Education Centers recognized by Government, Semi-Governmental, Private or
		International
	Technical Schools /	Centers to provide vocational / technical training based on employment
	Vocational Training	
	Centers	
	Research and	Centers to conduct research and development work in various fields using
	Development Centers	modern techniques
	Private tuition classes	Buildings with teaching facilities for individual or group of children by one
		teacher or group of teachers
	Art Centre / Dance	Buildings for study purposes with a view to providing aesthetics
	Academy	
	Offices	Centers with utilities and administrative services
	Office complex	two buildings with utility and administrative service facilities Or Buildings
		with allied facilities for more
Institutions	Professional Offices	Career Based Service Centers
	Banks, Insurance and	Insurance and Financial Institutions
	Financial Institutions	
	Automated Money	Centers for machine trading without a person
	Transfer Centers	
	Community	Centers to facilitate community gatherings, community and development
	Development Centers	activities in general
Social	Social and cultural	Centers for public and cultural activities
services and	centers	
public	Religious centers	Places used for religious purposes
amenities	Auditoriums and	Buildings used for events, seminars or meetings
	conference rooms	
	Library	Buildings used for reading and related studies
	Rehabilitation centers	Centers for reintegration of persons engaged in anti-social activities

	Crematoriums	Buildings in a cemetery with a gas or electric fountain to burn dead bodies run
		by a local authority
	Cemeteries	Places used for burial and cremation
	Shop	Places where retail or wholesale goods are sold
	Supermarkets	A self-contained large-scale building with one roof for selling consumer goods
	Shopping malls	Large Sales Centers with a wide variety of goods and services
	Restaurants /Cafeterias	Places to buy and consume food with minimal facilities
	Open Markets	Places where consumer goods are generally sold with or without cover
	Pharmacies	Pharmacies registered under State Pharmaceutical Corporation
	Laboratory Services and	Centers that run chemical service facilities affiliated to a hospital
	Collection Centers	
	Wholesale stores	Places where merchandise or business is in bulk storage
	Warehousing	It is a building or part of a building that is mainly used for storing raw materials,
		commodities or merchandise for sale locally or overseas using containers.
	Customer Service	Centers for systematic acquisition of customer service needs by competent
	Centers	persons
	Meat and fish stalls	-
	Liquor outlets	-
Commercial	Funeral halls	Centers for funeral arrangements
	Funeral halls with	-
	ceremony halls	
	Building Materials Sales	-
	Fuelstations	Buildings with facilities For sale in Petrol, Fuel, Lubricant and Liquid Petroleum
		Gas Retail
	Filling stations and	Facilities for retail sale of petrol, fuel, lubricant and liquefied petroleum gas for
	vehicle service centers	automobiles, Buildings such as vehicle service garages etc
	Filling stations and	Buildings with luxury trading facilities for retail sale of petrol, fuel, lubricant
	malls	and liquefied petroleum gas for automobiles
	Gas stations and	Gas stations for vehicles and electricity charging stations
	electric charging	
	stations	
	Communication towers	Towers erected on buildings for communication under the approval of the
	on buildings	Telecommunications Regulatory Commission

	Communication towers	communication tower build Under the approval of the Telecommunications
		Regulatory Commission
	Multi-storey parking	Two floors or buildings to accommodate more parking
	Open Vehicle Park	-
	Vehicle Showrooms	Buildings for sale in vehicles
	Resorts	Locations, restaurants, sports and recreational activities for tourists to relax or
		enjoy as a vacation destination.
	Guest houses	A building or part of it that accommodates guests is covered under this.
	Lodgings	Rentamenities
	Tourist hotels	All-inclusive accommodation for travelers
	Urban hotels	Locations used for business services that facilitate short stay in urban areas
Tourism	Travel Information	Information centers for the convenience of tourists
	Centers	
	Ayurvedic	Ayurvedic Councils Registered Local Ayurvedic Medical Centers
	Panchakarma Center	
	Cabana hotels	For tourism and leisure activities for tourists temporarily or Small-sized unit
		with lodging room and sanitary ware using permanent materials
	Mining & Mining	Buildings that support mining and mining-related industries, primarily for
	Extraction Industries	activated carbon powder or carbon powder / coal / block stone or fabrication
		industries (flooring, blasting, fragmentation, polishing) / stone grinding or
		processing industries.
	Metal Products and	Iron and steel, Foundry Foundry Industries, Secondary processes, Non-ferrous
	Casting Extraction	metal processing industries with melting and metal retrieval, Metal
	Industries	processing industries, electropletin And metal or plastic surface treatment
Manufacturin		industries, including galvanizing, or powder coating, Machinery, Machinery
g industry		Parts,Buildings that facilitate the manufacture of metal products and tools
	Oil refineries and	Manufacturing or combining oil refineries (petroleum or petroleum), fuel,
	petroleum-based	lubricant, grease and petroleum-based chemicals (basic or intermediate
	chemicals and	products), material petroleum gas products, industrial gas production or
	distilleries	processing or refueling industries, Asphalt processing plants, pigments and
		pigment intermediate products Pādanaya or combination of industry, paints
		(emulsion and enamel) Paints, varnishes, dyes, polish building facilities for the
		manufacture of, or in combination with the industry
	1	

Chemicals, polythene,	Manufacture, synthesis or re-packaging of chemicals, soaps, detergents,
plastics, rubber and	softeners or other cleaning agents, industrial rubber, natural rubber
glass based industries	manufacture or fabrication or rubber based industries, chemical fertilizer
	manufacturing or amalgamation Processing, processing or re-packing
	industries Fabrics, insecticides, fungicides and herbicides, manufacturing or
	combining or re-packing industries, polymeric (polymer) manufacturing or
	polymeric (polymer) industries, all types of fiber glass raw materials, all types
	of tires, Tube making or tire refueling, asbestos fiber raw materials, batteries
	Facilitate the manufacturing or reforming industries, the manufacture or
	extraction of Western pharmaceuticals or cosmetics, including the
	intermediate effects of the drug, the batik industry, the manufacture of
	combustible materials, the furnace and explosive industries. Buildings and
	buildings using wax Neither the industry.
Cement, concrete and	Cement industries (cleanser grinding or manufacturing or re-packing), cement
ceramic based products	block making industries, concrete pre-mixing plants, glass or glass based
	manufacturing industries, limestone, ceramic manufacturing industries, non -
	metallic minerals (limestone, Dolomite, apatite, rockphosphate, sandstone,
	peldspar, quartz, ilmenite, Uṭayil, zircon, mica, graphite talatu, ceramics, etc.),
	grinding or processing industries, concrete tire industry, plaster of Paris
	production industry, ceramic building facilities for the production of industrial
	goods
Clay Products Industry	Buildings for tile, clay brick and clay related industries
Natural fiber based	Fiber based industries using natural materials
manufacturing	
industries	
Textile, Clothing and	Apparel industries, textile processing (including bleaching, coloring, printing)
Leather Products	or garment washing or sand-based textile processing, handloom textile or
	weaving or embroidery industries, high power toiletries and call-in processes,
	Leather Finishing Industries, Leather Industries, Flax Fabrics Building facilities
	for the industry
Electrical and	Electrical or electronic goods and equipment manufacturing or assembly
Electronics related	industries
industries	
1	

	Heavy Machinery and	Container Terminals for the Car or Bicycle Manufacturing and Assembly
	Assembly Industries	Industry
	Paper Products and	Pulp and Paper Manufacturing Industries, Corrugated Cardboard
	Printing Industries	Manufacturing Industries, Lead Heat Printing or Newspaper Printing or
		Wastewater Generating Printing Activities or Color Processing Centers, Printing
		and Fabric Printing Facilities and Facilities for Industries
	Wood / Wood Products	Materials other than wood mills, boron treatment, chemical treatment and
	& Furniture	protection industries, multifamily carpentry industries
	Manufacturing	
	Industries	
	Food and non-alcoholic	Buildings for Facilities of Food manufacturing, processing and packaging
	beverage industries	industries, instant tea or coffee processing industries, including bakery and
		confectionery industries, non-alcoholic beverages, sugar cane industries, ice
		factories, tea factories, desiccated coconut processing industries or coconut
		processing industries.
	Alcohol / local	Engaged in the manufacture or extraction or amalgamation of alcoholic
	pharmaceuticals, spirits	fermentation industries (breweries, breweries) or bottling industries with
	and extracts	alcoholic beverage bottling and bottling operations, tobacco smoking, sugar
		production and sugar refining industries, ayurvedic, local pharmaceuticals
		Industry, coconut oil extraction or cinnamon oil extraction industry Cinnamon
		smoke (sulfur emission) legit industry, plants and animal oil / fats building
		facilities for the extraction industries
	Recycling activities	Solid waste recycling / recycling / recycling industries, toxic and hazardous /
	related industries	hazardous / hazardous waste recycling / recycling / recycling industries,
		municipal and other solid waste manufacturing centers
	Industrial	Electricity generating units, high-capacity water treatment plants, high-input-
	Infrastructure Facilities	capacity burners, buildings with facilities for high-efficiency (industrial or
	Centers	dead) refineries, except those used only in hydro or solar or wind power plants
		and in general power outages. And construction
	Home Industries	Handicrafts and non-traditional industries
Service	Vehicle Service Centers	Places of service provided for vehicle maintenance
industries	Vehicle Repair Centers /	Accidental / Impaired vehicles are repaired
	Spray Painting Centers	
	Taxi Service Centers	Places where the Owned or Leased Vehicles are hired for the needs of others

	Laundry / clothes	Locations for machine washing, drying and processing
	cleaning places	
	Grinding mill / pad mill	Places where machine grinding and grinding is done
	Writing racks, welding	Locations for machining iron sharpening, cutting and grafting
	workshops	
	Electronic Equipment	-
	Repair Centers	
Utility	Railway and bus	-
Services	terminals	
	Pocket Park	The areas of high density residential development, popular industrial and
		commercial development areas are covered by small areas, leisure areas and
		park areas where there is no proper maintenance or administration.
	Mini Park	It covers a small sports area, a rest area and a garden area with minimum
		accessibility of about 2 1/2 minutes walking distance to a residential
Leisure and		community of 200 M.
recreation	Local Park	These include a small sports area (senior or junior soccer pitch, irregular
		running training grounds, leisure areas, cricket turf, and park areas) within a
		400-M area, within a five-minute walk of the residential community
	Community Park	These include a wide range of Active & Passive play areas, ie turf fields and
		playgrounds, with a variety of facilities, within a 10-minute walk distance to
		the residential community of 800m. For example, a 2 hectare soccer field with
		athletics and running training tracks, a small cricket field between 1.0 hectares,
		a handball of 0.25-0.5 hectares, a netball or a basketball court, and a special
		children's field of about 0.25 ha. Play areas, ornamental gardens, ha. Natural
		environments for leisure and study of about 0.5
	Town Park	Multiple variations accessible by public and private vehicles covering a
		community of over 1600 M, with a wide range of Active & Passive play areas,
		ie a variety of sports, combined with separate play area and playgrounds.
	Central Urban	These include public recreational and recreational areas spread over nearly 100
	Park/City Park	Hec. which are accessible by public and private vehicles such as international
		level stadiums, tournaments, swimming pools, nature parks, small zoos.
	Regional Park	These include public recreational and recreational areas with all facilities or
		special activities, special natural environment.
		1

	Linear Park	Depending on the existing river / stream / canal reserves, linear parks will be decided. This includes mainly walking lanes, exercise lanes, bicycle lanes and parallel lanes.
	Indoor Sports Centers	Playing areas within a building with facilities for play
	Theaters	Buildings with auditorium facilities for watching movies for entertainment
	Clubs	Other social amenities with local and foreign liquor outlets for entertainment
	Art galleries / museums	A building where a large number of interesting and valuable objects, such as
		works of art or artefacts, are kept, studied and displayed to the public.
	Outdoor Theater	Seats with open platform
	Boat jetty / ferry	lease is a permanent or temporary built-in platform connected to a landfill
	accommodation	built for landing, evacuation and other services when the boat is parked in the
		water
	Anchorage ports	A medium-sized boat with a fixed support (anchor) stop in the water near or
		near the land.
	Livestock / farm farms	Places used for cultivating crops or raising animals for human consumption
	with construction	within or outside buildings erected on a particular site
Agriculture	Fishing ports	This is often a naturally built place and stops both traditional and small boats
		for landing and launching into the water.

Sources: No. 1533/16 - 2008.01.25 - Activities required to obtain licenses, National Environmental Act. 1980 no. 47/ Urban PORS Hierarchy -

UDA/ Department of Census & Statistics – Sri Lanka

Definitions

TOD - Transit Oriented Development

TOD, or transit-oriented development, means integrated urban places designed to bring people, activities, buildings, and public space together, with easy walking and cycling connection between them and near-excellent transit service to the rest of the city. It means inclusive access for all to local and citywide opportunities and resources by the most efficient and healthful combination of mobility modes, at the lowest financial and environmental cost, and with the highest resilience to disruptive events. Inclusive TOD is a necessary foundation for long-term sustainability, equity, shared prosperity, and civil peace in cities.

Source: www.itdp.

In these Guidelines, unless the content otherwise requires;

"apartment" means a building with one or more vertically connected dwelling units, consisting of a single kitchen, toilet, toilet, bathroom or toilet, which is either used for a single-family residence or more

"access" means any street used as means of access to building or a plot of land.

"air conditioning" means the processing of treating air so as to control. Simultaneously its temperature, humidity, purity, distribution and movement to meet the requirement of the air-conditioned space.

"air well" means any space within or out side the building for the purpose of obtaining natural light & ventilation.

"approved" means approved by the UDA or the relevant Local Authority, under the authority delegated the powers.

"approved plan" means a plan of a building or any building works or any land subdivision amalgamation, perimeters or resurvey approved by the UDA or the Local Authority in accordance with the Law and the Guidelines;

"relevant authority" means the Planning Committee either of the UDA; or a Local Authority, or any other Authority; or an officer, for whom the powers and the functions vested in the UDA, under the provisions of the Section 8 of the UDA Law of 1978 and the Amendments thereafter, has been delegated by the approval of the Board of Management of the UDA, generally or specially to exercise the powers, functions and duties conferred by these Guidelines;

"ancillary facilities" means the other uses inside the building which directly facilitate the main use.

"balcony" means any stage, platform, oriel window or other similar structure projecting outwards from the wall of a building beyond the outer face of any external wall of the building and supported by brackets or cantilevered;

"basement" means a story which is constructed or designed below the ground floor entirely or 2/3 of the height of such story.

"boundary wall" means any wall, enclosure or screen built on or along a boundary line of a parcel of land for the purpose of separating such land from another adjoining parcel of land;

"blind wall" means a wall in any construction work having no openings.

"building" means any construction made using permanent raw materials including walls and roof.

"building line" means the line up to which a building will be permitted to extend.

"chairman" means Chairman of the Urban Development Authority.

"code of Fire Precautions for Buildings" means the Code of Fire Precautions for Buildings that will be published by the Publication No. ICTAD/DEV/14 or any other fire regulation by the Fire Department.

"concrete" shall have the meaning given to it in the accepted code of the Sri Lanka Institute of Engineers.

"developer" means the person designating the name of the permit issued by the relevant authority for the purpose of development activity.

"development activity" has the same meaning as in the Law.

"Chartered Architect" means a person registered with the Architects Registration Board established under Sri Lanka Institute of Architects Amendment Act No 14 of 1996 under the category of Chartered Architects.

"Chartered Engineer" means a person registered in the Engineering Council of Sri Lanka.

"existing lot" means a lot sub divided before the area declared as an urban development area.

"external wall" means an outer wall or vertical enclosure of a building not being a party wall even though it may adjoin a wall of another building;

"flood level" means such flood level as may be specified for an area by the Department of Irrigation and Sri Lanka Land Reclamation & Development Corporation for the purpose of these Guidelines.

"floor" includes a horizontal platform forming the surface of a storey constructed using, timber, stone, concrete, steel or other substance.

"foot way" includes a footway or verandah way at the side of any street;

"foundation" means that part of a construction immediately below the footings of a building, which is in direct contact with and through which the weight of the building is transmitted to the ground;

"Flat roof" means a roof constructed using concrete instead of a roof.

"garage" means includes a building or part thereof, used for housing or parking of motor vehicles.

"godown" means a building or part thereof designed, adapted or used for the storage but not for the sale of goods in connection with the carrying on of any trade or business;

"ground floor" means the floor of a building most nearly on a level of access road with the ground. In a case where two or more adjacent roads, the highest floor is the floor closest to the main access to the building.

"height" means a clear distance between two points mentioned in the Guidelines.

"industrial building" includes factories, workshops and warehouses;

"law" means the Urban Development Authority Law of No 41 of 1978 and its amendments;

"licensed Surveyor" means a person who is authorized by the Surveyor General of Sri Lanka to practice;

"lot" in relation to land means the entirely of any land which has been demarcated by boundary marks or enclosed within boundary wall or fences where such land belongs to one single person or to a set of co-owners and approved as a lot by the relevant Authority;

"mechanical ventilation" means the process of supplying or removing air to or from a building or part there thereof by mechanical means or devices;

"owner" means whose name is registered in the assessment registry of the Local Authority and person who provided the ownership by relevant documents;

"office" means a building or part thereof used for office purposes or for the purposes of administration, clerical work, book keeping, accounting, drawing, editorial work or banking;

"party wall" means a wall forming part of a building and used or constructed to be sued along any part of its height or length for the separation of adjoining buildings, lands or part of the building that belong to different owners or are intended to be occupied by different persons;

"permissible floor area" means Maximum floor area for construction and it can be single or multy storeyed.

"persons with disability" means any person who, as a result of any deficiency in his physical or mental capabilities, whether congenital or not, is unable by himself to ensure for himself, wholly or partly, the necessities of life;

"place of public worship" means a building or a defined or enclosed place used or constructed or adapted to be used either ordinarily or occasionally as a church, chapel, mosque, temple or other place where public worship is or religious ceremonies are performed.

"plot coverage" means the percentage of total plinth area of a building in relation to the total land area in the Plot where building situated "public building" means a building or part thereof used or constructed or adapted to be used as a shop, office, hospital or place or public resort, not being a church, chapel, mosque, temple or other place where public worship is or religious ceremonies are performed;

"public street" means any street over which the public have a right of way and has become vested in any Authority under any Law orby operation of any Law and includes the drain or footway attached thereto;

"relevant qualified person" means any person who has obtained his professional qualification in Sri Lanka as:-

Chartered Architect or Registered Architect, who is registered in the Institute of Architects,

Town Planner, who is registered in the Institute of Town Planners,

Qualified Engineer of relevant subject, who is registered in the Institute of Engineers.

Licensed Surveyor, who is registered in the Survey Council,

Valuer, who is registerd in the Valuation Institute,

Soil Engineer,

A Green Certificate awarded person who is a corporate member of a professional Institute Incorporated by and act of parliament and obtained certificate from the course which has minimum of 3 credits in green building.

"repair" is the making good of a defective part of a building not amounting to a reconstruction thereof.

"residential building" means a building or part thereof designed or used for human habitation such as a single storeyed or apartment complex.

"retaining wall" means a protective wall constructed to stabilize the slope or prevent deformation of the soil layer in a steep slope.

"room" means a portion of a building enclosed by walls or partitions.

"sewerage" means any sewer or liquid waste and includes water-borne sullage and trade effluent;

"street line" means a line or lines defined on one or both sides of any street, existing to show its future width or to show the width of a future street as sanction by the Local Authority or as defined by the Urban Development Authority.

"structural part of a building" includes the roof, column or main post, beam, foundation, wall suspended floor, or staircase of a building but not include a door, window or internal partition thereof;

"temporary building" means a building which is permitted by the relevant Authority to remain for a specified period at the expiration of which the building shall be demolished.

"terrace house" means a residential building designed as single dwelling unit and forming part of a row or terrace,

"Town planner" means a Corporate Member of the Institute of Town Planners of Sri Lanka enacted by the Parliament Act No. 23 of 986.

"Valuer" means a corporate member of Institute of Valuers which is incorporated under the Institute of Valuers of Sri Lanka Law No. 33 of 1975.

"verandah-way" means a covered foot-way at the side of street.

"warehouse" includes a building or a part of building mainly used for storing merchandise or articles for trade.

"wall" means a short wall constructed on a boundary, balcony or verandah.

"zone factor" is a tool introduced to guide the development to optimize the utility of the developable lands and infrastructure and to regulate the form of the physical environment and distribution of the development density as envisaged in the development plan. Kelaniya Development Plan (2021 -2030) Urban Development Authority

Abbreveation

- DSD Divisional Secretariat Division
- GIS Geographical Information System
- GND Grama Niladhari Division Hec. Hectares
- Km Kilo Meters
- Kmh Kilo Meter Per Hour
- Km₂ Squares
- Lpcd Liter Percapita Day
- LRT Light Rail Transport
- M Meter
- Mm Mili Meter
- NDVI Normalized Diffrences Vegitation Index
- NPPD National Physical Planning Department
- SWOT Strengths, Weakness, Opportunities, Threats
- TOD Transit Oriented Development
- He Hectare
- P Perches
- UC Urban Council
- NHDA National Housing Development Authority

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