GREATER NUWARA ELIYA DEVELOPMENT PLAN

2022-2032



Urban Development Authority Ministry of Urban Development and Housing



Greater Nuwara Eliya Development Plan

The Paradise of Misty Hill

Create Nuwara Eliya as the proper living area and touring area for all users by protecting the endemic and hereditary environment as well as unique build form of the area.



Urban Development Authority Ministry of Urban Development and Housing



Greater Nuwara Eliya Development Plan 2022-2032 Greater Nuwara Eliya Development Plan 2022 - 2032

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Greater Nuwara Eliya Development Plan 2022 - 2032 mainly consists of three parts as Part I, II and III. The Part I consists of the background study, preliminary studies, the need of the plan, the planning framework, the SWOT analysis and the plan. The Part II consists of the Planning and Building Regulations and Zoning Regulations pertaining to the planning boundary for the period of 2022 - 2032. The part III consists of the zoning boundaries with the coordinates and all the annexures.

Greater Nuwara Eliya Development Plan 2022 – 2032 has been prepared by the Nuwara Eliya District Office

Supervision

Major General (Retd) Udaya Nanayakkara, Chairman – UDA, Plnr. N.P.K.Ranaweera, Director General – UDA, Arct. Plnr. Mahinda Wiithanaarachchi, Additional Director General – UDA, Plnr. M.P.Ranatunga, Deputy Director General (Planning) I – UDA, Plnr. B.H.M. Ranjith Bandara Central Province– UDA, Attorney at Law C. Jayawardena, Consultant (Legal) – UDA, Plnr. Priyani Nawarathne, Director (Strategic Planning) – UDA



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- Strategic Planning Division UDA (Supervision, monitoring and gazetting)
- Environment and Landscape Division UDA (Preparation of the PORS, DRR, Conservation, Cultural & Heritage Plans)
- GIS Division UDA (Providing Arc GIS Spatial data layer & technical assistants)
- Research and Development Division UDA (Conduct awareness programs to introduce new techniques)

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The Nuwara Eliya District Office <u>has</u> taken the lead to provide the supervision for the preparation of the Greater Nuwara Eliya Development Plan 2022–2032. The objective of this plan is to create better sustainable environment for all stakeholder's by preserving sensitive nature and form unique build environment with the vision of 'The Paradise of Misty Hill" The vision of the Nuwara Eliya Development Plan 2022 – 2032 is in line with the 'Vistas of Prosperity and splendour' the government policy.

It is our proud privilege to Honourable Prasanna Ranatunga subject Minister of Urban Development & Housing for approving the Greater Nuwara Eliya Development Plan 2022 – 2032 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 the 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 Mayor, of the Nuwara Eliya Municipal Council and Chairman of Nuwara Eliya Pradeshiya Sabha andmembers of the MC and PS and the staff. Secretary of Nuwara Eliya 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 Nuwara Eliya District Secretariat, all government and private institutions as well as individual resource personswho has provided the relevant data, other support and directives required for the preparation of this plan.

Appreciatively thankful to Chairman of UDA, Major General (Retd) Udaya Nanayakkara, Director General of UDA Plnr. N.P.K. Ranaweera, Additional Director General of UDA Arct. Plnr. Mahinda Wiithanaarachchi, Deputy Director General (Planning) of UDA Plnr. M.P.Ranatunga, Plnr. B. H. M.Ranjith Bandara Director, Central Province of UDA, 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 of all divisions are gratefully appreciate on behalf of the planning team for their support to the successful completion of this task.





The present government's manifesto; 'Vistas of Prosperity & Splendor' advocates that the physical space of our country should be utilized in an optimum manner and be facilitated equitably to achieve sustainable sustainable development.

The Urban Development Authority (UDA) implements and enforces the urban development plans, taking into account the disparities between districts in the same province as well as between towns in the same district due to the unequaled development in the urbanization process in the country.

Accordingly, the Urban Development Authority has already published Urban Development Plans for identified 26 towns and is currently in the process of preparing development plans for another 50 towns within this year. The Maharagama Urban Development Plan is one of those plans. By 2024, more than 130 Urban Development Plans are planned to be planned.

The priority of the Nuwara Eliya Urban Development Plan is to provide services to the residents of Nuwara Eliya and its surrounding town area and its residents. Further, there is potential for further development as a service center. The plan identifies the natural ecosystem of the area as well as areas of economic value that can be systematically utilized for the benefit of the urban population.

In the process of preparing this plan, the views and suggestions of professionals, experts, stakeholders and the community were taken into account and approaches were developed to develop this plan through modern analytical strategies and technologies.

Accordingly, I commend the Chairman, the Director General, the planning team and all the officers of the Urban Development Authority who assisted in making this work a success in various ways. I further hope that the successful implementation of the Gretaer Nuwara Eliya Development Plan (2022-2032) will be facilitated with the support and contribution of the relevant Local Government Institutions, Public and Private Sector Institutions and the general public.

Prasanna Ranatunga Minister of Urban Development and Housing

Greater Nuwara Eliya Development Plan 2022-2032 **Hon. Chairman's forward – Urban Development Authority**



The Urban Development Authority (UDA) is the apex planning and implementation body in Sri Lanka that is responsible for managing the urban areas of the country. The Authority was established in 1978 with the objective of introducing integrated planning and implementation in order to promote and regulate the developments of the aforementioned areas.

Under the Amendment Act No. 4 of 1982; [Part II Section 8A (1)] the UDA has been mandated to prepare Development Plans for the Urban Development Areas declared by the Minister-in-charge. Accordingly, the Development Plan for Greater Nuwara

Eliya has been prepared considering physical, economic, social and environmental aspects of the area.

The development plan for the Greater Nuwara Eliya Area has been prepared for the period 2022 - 2032, using modern planning tools and methodologies equipped by UDA. The Greater Nuwara Eliya Development Plan has adopted strategic approach to address prevailing issues and enhance the potentials to ensure a progressive growth of the area. Therefore, all stakeholders and public are requested to follow this plan and contribute for realization of its vision in order to fulfil the public interest.

I take this opportunity to extend my sincere gratitude to the planning team of the UDA who have supported and contributed with various means to successfully complete this plan within the given period. And also, I would like to thank all the stakeholders and citizens for their assistance and cooperation extended for successful completion of this task. I hope all of them will continue to extend their fullest support towards successful implementation of the plan.

Major General (Retd) Udaya Nanayakkara Chairman URBAN DEVELOPMENT AUTHORITY

Greater Nuwara Eliya Development Plan 2022-2032 Forward of the Mayor- Nuwara Eliya Municipal Council



Nuwara Eliya is a city situated in the central hills with natural beauty and with its unique environment. The significance in Nuwara Eliya, comparing to other cities is the high elevation and the cool climate condition with a long history of the British ruling this city has developed to a great extent.

High altitude city is surrounded by the mountains with green vegetation and colorful flowers, adding more glamour to the surrounding.

Due to the above reason, tourist attraction to this city gives more prominence. At present tourism has become the more important sector of income to the Nuwara Eliya people. It is the fact that the Nuwara Eliya city to the commercial hub of Nuwara Eliya districts therefor the prominence should be given to develop the city to itsmaximum.

As I mentioned above I am grateful to Hon. Minister of Minister of Urban Development & Housing and state minister of Urban Development, and also UDA staff for giving priority to uplift the development in Nuwara Eliya and giving to the people of Nuwara Eliya.

Giving consideration to the "Greater Nuwara Eliya Development Plan" proposed by the Urban Development Authority. I found that the Economic, Social Environmental and Tourism benefits which focus for next 10 years booming the Nuwara Eliya City as a touristic city of the paradise island.

I wish all the very best and the fullest co-operation will be given by the Municipal Council, Nuwara Eliya to make the projects a success.

Deshamanya P.D.Chandana Lal Karunarathne, Hon.Mayor of Nuwara Eliya Municipal Counci



Forward of the Chairman - Nuwara Eliya Pradeshiya Sabha



Nuwara Eliya is a natural attraction for both local and foreign tourists. Centrally located in the central highlands, this region has its own unique peculiarities and environmental features. High altitude location the high land area is characterized by a forested area, a unique land use pattern with upland tea and upland vegetablecultivation.

With the commencement of the popularization of the Nuwara Eliya region which was identified during the British period, infrastructure facilities have been developed and the Nuwara Eliya area is further enhanced by the plantation economy of the Kandyan tea plantation. Therefore, the area is currently looking for economic, environmental and social improvements. Nuwara Eliya is also an important administrative center.

As a result, I am pleased to be the Chairman of the Nuwara Eliya Pradeshiya Sabha for the future Nuwara Eliya Development Plan, which will be prepared by the Urban Development Authority under the aegis of the Ministry of Urban Development & Housing.

We have studied this plan and hope to develop the economic, social, and environmental and tourism sector of the area.

I wish the Nuwara Eliya area to become a paradise in the Sitha Mountains within the next 10 years and I hope that this plan can be successfully implemented and will continue to contribute fully as a Nuwara Eliya Pradeshiya Sabha.

Vely Jogaraj Hon.Chairman- Nuwara Eliya Pradeshiya Sabha



This development plan has been completed for the Nuwara eliya Municiple council area and part of Nuwara Eliya Pradeshiya Sabha area with comprising 21 no of Grama Niladari Divisions for next 10 years period. The Nuwara Eliya which is the capital of the Nuwara Eliya District is situated on a plateau between two erosion scraps slightly above 6000 ft. MSL. Also narrow mountain slopes, Low rounded hills, crests; foot hills, dissected plateaus and a valley make a unique landscape within and around the town, the climatic condition and greenery of the area is increase the beauty of this geographic pattern. As a reasons that it is become a most tourist attractive town in Sri Lanka.

Currently Nuwara Eliya Municipal council area has about 35,000 of resident population and it will 52,000 for greater Nuwara Eiliya plan area. Annual 950,000 of local tourist are arrival and foreign tourist are about 135,000. The economy is mainly based on Tourist and Agricultural sectors. Tea estate sector also contribute some part to the economic development.

A Tourism Development Master Plan (TDMP) has been prepared for Nuwara Eliya tourism area by the Urban Development Authority and Sri Lanka Tourism Development Authority. This plan covers the entire Nuwara Eliya Pradeshiya Sabha area which goes beyond the planning boundary of the Nuwara Eliya Development Plan. Preparation of the Nuwara Eliya TDMP was undertaken parallel to the preparation of Nuwara Eliya Development Plan considering their cross impacts and the proposals of Nuwara Eliya TDMP which fall within the limits of Nuwara Eliya Development Plan have been fully incorporated into the Development Plan.

The main objective of this development plan is to achieve sustainable development while preserving the environment sensitiveness. These plans have laid out the vision, objectives and strategies for the next 10 years while safeguarding the economic development and environmental beauty of the tourism and agriculture sector

In addition the plan is in line with the present government manifesto as well. Especially the government focuses to work out a program of action consisting of ten key policies aimed at achieving fourfold outcome which are a productive citizenry, a happy family, a disciplined society and a prosperous nation. Thus, the Nuwara Eliya Development plan aims to achieve the urban development coordinating with the main outcomes of the above manifesto. Essentially about five key policies fulfill through the plan such as Productive citizenry and a vibrant human resource, people centric economic development, technology based society, development of physical resources and sustainable environmental management. The planning and building regulations have being prepared by achieving the above policies as well.



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APPROVAL OF THE DEVELOPMENT PLAN FOR THE URBAN DEVELOPMENT AREA OF MUNICIPAL COUNCIL OF NUWARA-ELIYA AND PART OF THE PRADESHIYA SABHA LIMIT OF NUWARA-ELIYA

I, Prasaana Ranathanga, Minister of Urban Development and Housing do hereby approve the Development. Plan for the Urban Development Area of Municipal Council of Nuwara-Eliya and part of the Pradeshiyu Sabha limit of Nuwara-Eliya, after consideration of 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.

> Prusanna Ranathunga (M.P) Minister of Urban Development & Housing

Ministry of Urban Development & Housing, 17ⁿ and 18st Floors, "Submrupaya", Subhuthipura Rood, Bottaramulla.

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PART I : SECTION (I) - GENERAL

Government Notifications

APPROVAL OF THE DEVELOPMENT PLAN FOR THE URBAN DEVELOPMENT AREA OF MUNICIPAL COUNCIL OF NUWARA-ELIYA AND PART OF THE PRADESHIYA SABHA LIMIT OF NUWARA-ELIYA

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> PRASANNA RANATHUNGA (M.P.), Minister of Urban Development and Housing.

Ministry of Urban Development and Housing, 17th and 18th Floors, "Suhurupaya", Subhuthipura Road, Battaramulla, 01st August 2022.

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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, Prasanna Ranathanga, the Minister in Charge of the subject of Urban Development and Housing, by virtue of the powers vested in me under section. 8(F) of the said Act, No. 4 of 1982 have approved the Development Plan for the Urban Development Area of Musicipal Coancil of Nuwara-eliya and part of the Pradeshiya Sabha limit of Nuwara-eliya, prepared under Section 8 (A) of the said Act on the day of 01st August 2022.

> PRASANNA RANATHENEIA (M.P.), Minister of Urban Development and Housing.

Ministry of Urban Development and Housing, 17th and 18th Floors, "Suburupaya", Subhuthipura Road, Battaramulla, 01st August 2022.

APPROVAL OF THE DEVELOPMENT PLAN FOR THE URBAN DEVELOPMENT AREA OF MUNICIPAL COUNCIL OF NUWARA-ELIYA AND PART OF THE PRADESHIYA SABHA LIMIT OF NUWARA-ELIYA

PUBLIC are hereby informed that the Development Plan Prepared for the Urban Development Area of Municipal Council of Nuwara-eliya and part of the Pradeshiya Sabha limit of Nuwara-eliya 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 01st August 2022, by Hon. Prasanna Ranathunga, Minister of Urban Development and Housing, by virtue of powers vested on him under Section (F) of the said Act.

MADIS GENERAL (Reid Ubara Noostaticara), Chairman, Urban Development Authority.

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PART 1

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CHAPTER 01- INTRODUCTION

1.1 Introduction

Attention is focus towards physical environmental cultural political economic and social sectors prepare development plan for urban area for next period of time within the declared urban development area. Solidness of the planning framework and planning procedure of the planning texture depends on the SOWT analysis of its physical and social areas

Urban development authority can be identified as main regulatory institute as town and their suburb development in Sri Lanka. Urban development authority act No 41 of 1978 gives powers to UDA to urban planning in Sri Lanka. Clause No 8 of urban development authority amendment act No 4 of 1982 gives urban development authority to regulatory powers to enforcement and planning regulations within the area of identified urban areas under the act.

According to above legal form the UDA study social economical political cultural environmental and physical situations of the urban development areas and identifies set of urban areas tendencies and potentials and their weekness threats and their proper management of made development plan for next definite time to definite vision. Development plan prepared all counterpart development including commuters and town population. This development plan prepared to help for future development of area population and commuting population.

According to the gazette notification of No 38/16 dated 01st of June 1979 under UDA act 1978, limits of the municipal council Nuwara Eliya declared as development area. As well as Nuwara Eliya Pradeshiya Sabha area also gazzetted No 4/1546 dated 8th September 1998.

According, to the above factors, prepared development plan for the NuwaraEliya Municipal Council area in 2004 expired on 2022. Hence it is needed to prepare new development plan for next 10 years of time to Numara Eliya Municipal Council area including its adjoining 5 Grama Niladari divisions within the Numara Eliya Pradeshiya Sabha area.

New development regulation and new development strategies are introduced in this new development plan.

1

1.2 Planning Team

1.2.1Main Consultancy institutes

1. Nuwara Eliya Municipal Council

1.2.2. Other stakeholders

Other Stakeholders

- 1. All Religious Dignitaries
- 3. Central Environmental Authority
- 5. Forest Department
- 7. Road Development Authority
- 9. Sri Lanka TouristDevelopment Authority
- 11. Nuwara Eliya District Secretariat
- 13. Nuwara Eliya Divisional Secretaria
- 15. National Building Research Organization
- 17. Agricultural Department
- 19. Department of Agrarian Services
- 21. Irrigation Department
- 23. Railway Department
- 25. Education Department
- 27. Health Department

- 2. Sri Lanka Transport Board
- 4. Provincial Passenger Transport Authority
- 6. National Physical Planning Department
- 8. Non-Governmental Organization
- 10. Hotel Union of Nuwara Eliya
- 12. Tourist Guide Union Of Nuwara Eliya
- 14. Motor Racing Society Of Nuwara Eliya
- 16. Traders Union Of Nuwara Eliya
- 18. Tourism Hotel Union of Nuwara Eliya
- 20. Ceylon Electricity Board
- 22. Sri Lanka Telecom
- 24. Guest House Union of Nuwara Eliya
- 26. 4 x 4 Motor Cares Union of Nuwara Eliya
- 28. Sports Society of Nuwara Eliya

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2. Nuwara Eliya Pradeshiya Sabha

1.3 Scope of the Work

Nuwara Eliya is a unique city in the Central Province of Sri Lanka. This city is relatively physical and environmental diversified compared to other cities in Sri Lanka. The region is characterized by high sensitive ecological zones and unique climatic features. This region can be identified as a major catchment area which feeds the major rivers of the island

Due to this situation, the Nuwara Eliya area has been identified as a High Sensitive area under the National Physical Plan of Sri Lanka. According to the National Physical Plan 2050, the Nuwara Eliya Zone belongs to the Central Hyperventilation Zone, with a population limit of 100,000 by 2050, and the population of the Greater Nuwara Eliya region is projected to be 59,000 by 2030 in this development plan.

This development plan has been prepared considering and overcome the shortcomings of the Nuwara Eliya Development Plan 2004-2017 gazed on 2004.04.23 under no of 1337/16.

As this development plan is bounded, it is highly considered Haggala Forest Reserve which is specifically designated as a protected area in accordance with the Flora Ordinance No. 2 of 1937 and subsequent amendments. Similarly it is considered the piduthalagala forest conservation area gazette on 2007.12.14 no 1527/22 and Kandapola and See tha Eliya forest conservation areas gazetted on 2018.07.22 no of 1559/12. Also considered the Kikiliyamana – single tree Forest area Forest Conservation (Amendment) Act No 65 of 2009.

In addition, under the National Environmental Act No. 47 of 1980 No. 1487/10 and the regulatory restrictions on the Gregory Lake Environmental Protection Zone gazetted on 05thMarch 2007 were considered.

Also considered the rules and regulation coming under the gazette no 1487/10 dated 2007 .03.05 for the Gregory Lake conservation area. Similarly, the boundaries for the Galways Land National Sanctuary, which was gazetted under Ordinance 1405/18 of the Forest and Flora Ordinance, were considered.

The regulations for the Buildings to be Conserved in the City of Nuwara Eliya as per the Gazette No. 1486 dated 23.02.2007 by the Department of Archeology in accordance with the Archaeological Ordinance and rules and regulations which regulated for identified buildings with unique architectural features of the area has been studied for theGreater Nuwara Eliya Development Plan.

Also he plan focuses on the environmental sensitivity of the area, which is aimed at the provision of tourism development with nature and well-managed economic, social and environmental development with protecting unique architectural features.



3

1.4 The Planning Process

Figure 1.0.1: The Planning Process



CHAPTER 02-PRELIMINARY STUDY

2.1. Study Area

Nuwara eliya town is unique climatic and scenic beauty area in the central hills of srilanka. This area can be identified as main water spring catchment area of major rivers in the basic mountain ranges of piduruthalagala, kikiliyamana, singal tree and haggala. Also Uma and Kothmale tributaries of Mahawali River can be identified as catchment area

Nuwaraeliya town was declared as urban municipal council area in 1948 and also it was declared as urban development authority area by the gazette notification of No 38/16 on 01 st of June 1979. After that Nuwara Eliya Pradeshiya Sabha area was declared as Urban Development Authority area by the gazette No 154644 on 01 st of September 1998.

Nuwara Eliya Municipal Council boundry and part of Nuwara Eliya Pradeshiya Sabha area included to this greater Nuwara Eliya Development Plan study area. According to that 12 grama niladari division in the Nuwaraeliya municipal council area and 18 grama niladari divisions in the Nuwaraeliya pradeshiya sabha area are identified as study area. (Table No 2.1/ Map No 2.1) totalextent of the area is 138 squre kilomiters

	Grama Niladari	Division		Grama Niladari	Division
	Division	No		Division	No
1	Bambarakale	535K	16	Kalegala	535C
2	Bangalahatha	476C	17	Magasthota	535A
3	Buluale	535I	19	Meepilimana	476H
4	Konkodiya	534F	19	Mihindupura	476G
5	Galpalama	534A	20	Nuwaraeliya	535
6	Gorandihela	478	21	Nuwaraelliya central	535D
7	Hawaeliya east	535H	22	Nuwaraeliya west	535L
8	Hawaelliya North	535G	23	Park	534P
9	Hawaeliya west	535F	24	Pedroue	534H
10	Jayalanka	534B	25	Ruwaneliya	476D
11	Kalapura	535N	26	Sandathanne	535E
12	Kalukale	535B	27	Seethaeliya	478A
13	Kanadapola	534	28	Shanthipura	535M
14	Kandapola central	534C	29	Toppass	535J
15	Kandapola east	534D	30	Windyconer	476E

Table 2.0.1: Study Area



5

Map 2.0-1: Study Area



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2.2. Planning context and situational analysis

2.2.1 Historical Evolution

Ancient History of Nuwara Eliya

It is believed that history of Nuwara-Eliya runs beyond the 10th century as for the reason that an old 'Stone letter' which belongs to the 10th century was found in Thalaga Oya. If the exploring of history is taken a step forward, it reveals some fascinating happenings to chat about. As for the folklore, Ramayana, the king of Lanka, Rawana abducted Sitha who was Indian King Rama's beautiful wife and kept her captive in Sita Eliya, a location in Nuwara Eliya. Today, The Sitha Amman Temple stands in Sita Eliya with such recalls.

The epic continues to say that a troop of monkeys came to save Sitha but King Rawana punished Hanuman, the leader of the troop by setting his tail on fire. It is said that Hanuman burned the entire Nuwara Eliya City which had been the Capital during King Rawana's era. The black soil, which forms the top layer of Nuwara Eliya, is believed to have formed of the ashes of the city of Rawana, burnt down by Hanuman.

Another legend tangled with Nuwara Eliya City runs back to Anuradhapura Era where prince Gamunu, the son of King Kavantissa who ruled Ruhuna took refuge to set forces against King Ealara. However, the legends go silent and a very little is heard of this area till the Kandyan Era.

When the history is kindled further, it is noted that the ancient kings who ruled the island were not aware of the economic value of Nuwara Eliya but considered that it was the location where pure water flowed. Thus, it was treasured with much care to keep its natural beauty as it was. May be for this reason they did not build any kingdoms or palaces in the city.

Figure 2.0.1: Nuwara Eliya Colonial Period



The modern history of Nuwara Eliya is said to be rejuvenated in 1818 when a British Surgeon Dr. John Davy rediscovered this unique area with a similar climate as England filled with fauna and a massive number of wild animals for hunting. Today known as 'Oliphant Estate' is the old 'Elephant Plane', the place which so many elephants lived.



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Sir Edward Barnes, the Governor of Ceylon during the period 1824-1831 constructed roads and shelters in Nuwara-Eliya. His holiday home 'Barnes Hall' in Nuwara-Eliya is known to be the very famous Grand Hotel today. St. Andrews Hotel, Keena Hotel and Carlton Hotel are some of the other constructions that took place in his period. The success of the island's planting enterprise is also attributed to him as he who constructed the network of roads linking the hill country to the coast which is a vital prerequisite for development. Notwithstanding his role as Governor of Ceylon, Barnes took a personal interest in the coffee industry but failed some time later with botanical virus.

Sir William Hortain the Governor from 1831-1837 was the editor of 'Colombo Journal' newspaper. His articles to the paper on Nuwara Eliya depict the interest he had on this beautiful surrounding.

Sir Samuel Baker's arrival in Ceylon (Sri Lanka today) during Sir Hortain's period is concerned special as he was one of the first Englishmen to popularize Nuwara Eliya. He set a farm in Nuwara Eliya bringing English colonists to work in it. Some of the English vegetables he introduced to Nuwara Eliya are popular throughout the country even today. He was so in love with this beautiful island and explained it could only be equaled by his affection for Old England. In his book "Eight Years in Ceylon" Samuel Baker wrote about Nuwara Eliya which shows his beloved enthusiasm.

Among his massive contributions towards making Nuwara Eliya thriving, the 'Baker's Ward' which was built in Nuwara Eliya Base Hospital in memory of his brothers who passed away while travelling to Nuwara Eliya is a sentimental icon. Even though he failed in many of his experiments in this island he is said to be a distinguished character in the Lanka history. His name is perpetuated to this day in Baker's fall.

Sir William Gregory who became the Governor in 1872 (1872-1877) had the vision of making Nuwara Eliya the Capital city of Sri Lanka. He forwarded many proposals to develop Nuwara-Eliya. He drained a swamp and converted it into a lake by making a dam across the Nanu-Oya, which is today a prime attraction in the city known as 'Gregory Lake'. His enthusiasm towards this unique city with a luxury cool climate, fine lands for cultivation and animal farming and lands with treasured gem made him attract a considerable number of foreign merchants to the city.

Figure 2..0.2: Old Nuwara Eliya



Greater Nuwara Eliya Development Plan 2022-2032

In 1877 Sir Robert London became the Governor. Concerning Sir William Gregory's advice, he involved in building the railway track from Peradeniya to Nawalapitiya and then from there to Hatton and Nanu Oya.

In early years, the city population was mostly British as the Europeans competed with each other to settle down in the most picturesque places in the city. However, the local population devoid of money and generally not quite in agreement with its cold climate did not find comfort in such surroundings. For this reason, only a few Sinhalese, Tamils and Moors inhabited the Nuwara Eliya city. Nevertheless, the growth of the city as a main center for plantation and commercial activities attracted a more varied population. It is also said that, in later part of the British Era, to be more specific, by the end of World War I in 1918 more Sri Lankans bought land and built houses in Nuwara Eliya.

When colonized Ceylon (Sri Lanka Today) is recalled, Great Britain's influence is the most noticeable, having been the last colonizer before the island's independence. The dramatic transformation in Sri Lankan society, through government interventions and economic expansion during the British Era is remarkable. From plantation and agriculture the influence spread to almost every part including transportation, administration, educational system, etc. which could be argued favorable or unfavorable. However, many Sri Lankans still live and practice British customs to some extent may be for the reason that the affections are yet too strong to eradicate completely from the society.

129 buildings built at that time were identified as conserved building in Nuwaraeliya and they were included into the development plan prepared for 2004 - 2008 period.

Contemporary History of Nuwara Eliya

After the independence, migration towards Nuwaraeliya area gradually increased and settlement development took place in the area. Upcountry vegetable cultivation and pears cultivation were in the area at the first part of the 20th century. Potato cultivation started in Nuwaraeliya in 1969. Nuwaraeliya experienced gradual development towards the latter part of the 20th century due to construction of the hotels in the view points of the area. The main factor which drived development of Nuwaraeliya was the settling of families related to cultivation areas in 1970 and 1980 two decades and land development taken place after the destruction of property in the town central area after civil commotion in 1983.



2.2.2) Planning interventions on Nuwara Eliya

National Physical Plan 2015-2030

As per the plan, Nuwara Eliya was identified as a District Capital connecting Highways and railway network. The targeted population in Nuwara Eliya for 2030 was approximately 47,000. The city was categorized under the 'Central Environmental Sensitive Area' which restricted further developments in the area. The city was further included in the 'Central Fragile Region' under the Proposed Protected Area Network in order to conserve the water sources of the country. By this, Nuwara Eliya was to continue to exist but its development and expansion to be controlled and restricted. The city was also identified as an Eco-Tourism Area and Potential Archeological Tourism Development Area.

The National Projects those were to influence Nuwara Eliya included provision of facilities and amenities for eco-tourism activities, including hotels, access roads, information centers etc. and implementation of forest replanting programs in the areas in Nuwara Eliya (15870 ha) that were under cultivation, had slopes with a gradient of over 60% and been identified by the NBRO. It was also proposed to establish a wind power generation plant and IT park in the city.

National Physical Plan 2050

As for the revised National Physical Plan 2050 Nuwara Eliya falls under 'Central Fragile Area' which is the geographic entity that consists of the lands with sensitive natural ecosystems, highly vulnerable to landslides and play a crucial role in sustaining water resources.

Moreover, Nuwara Eliya has been identified as a 'Main City' which is a relatively larger concentration of economic activities, urban facilities and residential population, and serves as the higher order service Centre to a reasonably larger land area. Within this policy, a 'Main City' shall be defined as and area with a minimum population of 100,000, and a net residential population density between 100 - 500 persons per square kilometer. Hence, Nuwara Eliya is proposed to be developed as an independent medium scale urban facility location with a population varying between one and two hundred thousand (100,000-200,000). However, the plan emphasizes that out of the identified 'Main Cities' Nuwara Eliya may need to divert its excess population into elsewhere in future due to its fragile environmental conditions.

Tourism Development Strategies of the plan has identified Nuwara Eliya as one of the Tourist Development Areas to be promoted based on eco-tourism concepts, with controlled development since it inherits highly environmental sensitive area.





Greater Nuwara Eliya Development Plan 2022-2032

Figure 2.0.4: National Physical Struture Plan 2030



Figure 2.4: National Physical Structure Plan 2050



Figure 0.5: Tourist Areas-National Physical Structure Plan – 2050



Sri Lankan Tourism Strategic Plan 2017-2020

The Tourism Strategic Plan has identified Nuwara Eliya as a one of the destinations in the Grand Tour Path which connects Colombo, Galle, Mirissa and Yala from south corridor and thereafter extends to Hortain Plains, Polonnaruwa and Sigiriya.



Figure 2.0.6: The Tourist Tour Trails in Sri Lanka

Nuwara Eliya categorized as an 'Emerging Hub' in the Plan is expected to perform as a center of significance or emerging tourism as an attraction, center of accommodation, or both. It is also expected to rely on the Major Hub Kandy for support services and maintain connectivity through Touring Routes.

It has also been proposed to collaboratively involve with the private sector to launch express luxury coach services to Tourism Hubs during peak seasons. Nuwara Eliya is one of the Tourism Hubs identified.





Development Plan for Nuwara Eliya has been prepared by the Urban Development Authority for the boundaries of Nuwara Eliya Municipal Council and a part of Nuwara Eliya Pradeshiya Sabha area. Accordingly, 12 Grama Niladari Divisions of the Nuwara Eliya Municipal Council and 18 Grama Niladari Divisions of the Nuwara Eliya Pradeshiya Sabha are considered in the Plan.

Figure 2.0.7: Tour Map- Sri Lankan Tourism Strategic Plan

The vision of the Plan is to priorities sustainable development goals while protecting the endemic and hereditary environment of the city and make it a proper residential area and a tourism destination. Accordingly, the goals are to;

- Preserve the natural environment and improve water quality of the city
- Enhance the endemic and hereditary features in order to protect the city image and
- Create a Vibrant Wealthy Zone

Many strategies have been proposed under infrastructure, economic and environment to lead towards the set vision.

Nuwara Eliya Tourism Development Master Plan - 2032

Nuwara Eliya Tourism Development Master Plan (TDMP) is prepared by the Urban Development Authority as a part of a consultancy assignment undertaken by the UDA for the Sri Lanka Tourism Development Authority (SLTDA).

Preparation of the Nuwara Eliya Tourism Development Master Plan (TDMP) was undertaken parallel to the preparation of Nuwara Eliya Development Plan considering their cross impacts. The planning boundary of the Nuwara Eliya TDMP is the Nuwara Eliya Pradeshiya Sabha area.

The Concept Plan of the Nuwara Eliya TDMP

The Concept Plan of the Nuwara Eliya TDMP has been formulated considering the geographical setting of the area and the key tourism attractions.



Figure 2.0.8: Geographic Setting of the Area



Figure 2.0.9: Geographic Setting of the Area

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Nuwara Eliya city centre is a basin city which is at 150 MSL surrounded by a range of mountains namely Piduruthagala, Kandapola, Haggala Mountain, Concical Hill and Single Tree hill.

The entire Nuwara Eliya TDMP area has been divided in to 5 corridors/ clusters as shown in the below map.



Figure 2.0.10: Concept of the Tourism Plan

Zone	Key Characteristics	Covered Areas
Zone 1 –	This area mainly covers the central city area	Gregory Lake, Victoria
Nuwara Eliya	based on the Gregory Lake, Victoria Park,	Park, City Centre. The
Central Tourism	Racecourse and the city area. This area has	boundary of this area is the
Area	been identified as the central tourism	high-elevated mountain
	facilitation area having standard	range surrounding the city
	accommodation, commercial and tourism	center.
	services activities. In addition, the area	
	surrounding the Gregory Lake, Victoria Park	
	has been identified as a recreational area.	
Zone 2 – Tea	The tea estates ranging from a part of Hatton,	The tea estates ranging
Tourism Cluster	Thalawakele, and Agarapathana areas are	from a part of Hatton,
	taken for this zone. These areas have	Thalawakele, Agarapathana
	relatively mid-rise human scale mountain	areas.
	ranges and are utilized as tea-estates. This	
	cluster is based on the Hatton – Nuwara Eliya	
	Road.	
Zone 3 –	This cluster is located at the either sides of	Seethaeliya, Haggala &
Haggala Flower	the Nuwara Eliya – Welimada road. This	Moon plains
& Vegetable	cluster has relatively descending elevation	
Corridor	compared to the Nuwara eliya city centre	
	area. These areas are largely occupied for	
	vegetable, fruits and flowr cultivation.	
	Haggala garden is the famous tourism	
	attraction located in this area.	
Zone 4 – Diary	This cluster is located based on the Nuwara	Meepilimana, Kande Ela,
& Fruits	Eliya Hortain Plains road and has unique	Ambewela, Pattipola
Framing Area	beautiful sceneries. These area has many	
	attractions and diverse landscape	
	characteristics. The most sought world	
	famous Hortain Plains is met by the end of	
	this cluster. Also there are renowned railway	
	stations namely Ambewela, Pattipola and	
	Ohiya. Kande ela reservoir and Black pool	
	lake area also key attractions in this area.	
	This cluster is one of the most visited areas	
	due to the existence of famous diary, and	
	strawberry farms.	
Zone 5 –	Hortain Plains is considered as a separate	Hortain Plains, Ohiya
Hortain Plains	cluster due to its high sensitivity, special	
	character and the high tourism attraction	

Table 2.0.2: Cnncept of the Tourism Development Plan

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The Nuwara Eliya TDMP has been developed on the above five clusters and the two tourism trails;

- Waterfall tour trail water fall tour trail has been proposed based on the locations of more than 20 number of waterfalls located in and around Nuwara Eliya TDMP area. Among these total waterfalls, several number of waterfalls fall within the Nuwara Eliya DP area.
- Railway tour trail Railway tour trail has been proposed connecting the Nanu Oya, Ambewela, Pattipola and Ohiya Railway Stations. Although none of these railway stations located within the Nuwara Eliya DP area, it has impact when connecting these stations with the city center.

2.2.3) National and Regional Linkages

Connectivity or the accessibility is the fundamental of any destination which allows to link with local scale to global scale. In spatial planning generally it concerns that higher the accessibility is greater the potential to development. Accordingly, when it consider about the connectivity of Nuwara Eliya via differentiate transports modes it seems a moderate level of connectivity when it evaluate the rail and road network transport connections (Figure 72). Apart from these common ground based transport networks, currently there is a potential for sea plane circulation as well. Though Castlereagh reservoir in Hatton and Lake Gregory is currently being used for sea plane functions still there is possibility at Barrack Plain and Kande Ela reservoirs in middle of Nuwara Eliya.



Figure 2.0.11: National scale connectivity

• Rail Transport Linkages

The famous up country train ride which is starting from Kandy to Ella leads via Nanu Oya station which is consider as the closest rail destination to Nuwara Eliya. The travel distance from Nanu Oya station to Nuwara Eliya town is approximately 9 km along the Colombo – Batticaloa (A7) highway. Current rail network runs through Nanu Oya leads Ella along the Pattipola which is consider as the highest railway station (6204 ft) established in the country. The line was initially built for the requirement of travel and transportation of plantation products grown in up country.

The connection line which was built between Nanu Oya and Udupussellawa suggested by British Governor Sir West Ridgeway was built in year 1900 and its 1st phase commenced functioning in 1903 which started from Nanu oya and leads up to Nuwara Eliya. During 1940s said line was totally shut down by British management and so far it is a neglected connection which has remains only its skeletons.

Currently Nanu Oya act as the prominent rail entrance to Nuwara Eliya. There is default time table for the train trips which is passing Nanu Oya station and specially scheduled trips which is oriented to facilitate both local and foreign passengers who pass Nanu Oya in their vacations. The existing trips serves to Nanu Oya station are as follows.



Colombo Fort to Nanu Oya			
Train	Departure	Arrival (to Nanu Oya)	Frequency
Podi Menike - Express	05:55	12:56	Daily
(Train #: 1005)			
Denuwara Menike – Intercity	06:45	12:17	Daily
(Train #: 1001)			
Udarata Menike – Express	08:30	14:45	Daily
(Train #: 1015)			
(Train #: 1007)- Express	09:45	15:59	Daily
Night Mail	20.00	03:03	
(Train #: 1045)			
Badulla to Nanu Oya			
Udarata Menike – Express	05:45	09:16	Daily
(Train #: 1016)			
Podi Menike – Express	08:30	11.59	Daily
(Train #:1006)			
(Train #: 1008) – Express	11:00	14:51	Daily
(Train #: 1596) – Local	11:45	17:08	Daily
Night Mail	17:50	22.08	Daily
(Train #: 1046)			
Ella to Nanu Oya	I	P	
Udarata Menike – Express	06:40	09:16	Daily
(Train #: 1016)			
(Train #: 1001) – Special	08:16	10:38	School vacation special
Podi Menike – Express	09:24	11:58	Daily
(Train #: 1006)			
(Train #: 1008) – Express	11:57	14:35	Daily
Night Mail - Express	18:51	22:08	Daily
(Train #: 1046)			
(Train #: 2007) – Special	20:46	23:01	August School vacation special
Kandy to Nanu Oya			
(Train #: 1126)	03:30	09:02	Daily
Podi Menike – Express	09:05	12:56	Daily
(Train #: 1005)			
Udarata Menike – Express	11:10	14:45	Daily
(Train #: 1015)			

Table 2.0.3: Scheduled train via Nanu Oya

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Figure 2.0.12: Rail Transportation Linkages

Road Transport Linkages

Nuwara-Eliya being centrally located in the island is conveniently reachable through five directions as, from Kandy in North (A5), from Kandapola in Northeast (B332), from Welimada via Rendapola in East (A5), Ohiya from South (Ambewela Road) and Hatton from West (B381). Northern and Western connections are considered as most popular road access towards Nuwara Eliya. North connection that connect with Kandy via A5 road leads through Peradeniya, Gampola and Ramboda. It takes 2 hours and 30 minutes to travel 76 km distance of this connection. The road leads from Nawalapitiya via Kotmale connect with this A5 road at Thawalantenna. The second famous connection that leads from Colombo via Avissawella to Hatton road (A7) links to Hatton - Nuwara Eliya road (B831) and it takes approximately 5 hours to travel this 175 km distance.

Existing road network currently facilitates for public transport bus services in regional and local context. Accordingly, Nuwara Eliya comprise with 8 no of directly connected regional bus routes, 4 no of passing through regional bus routes and 8 no of locally connected bus routes.





Figure 2.13: Major road connection to Nuwara Eliya

Air Transport Linkages

Domestic air transportation is a trending traveling mode in the country. There are many domestic air ports and sea plane ports functioning in significant destinations distributes within country to facilitate this trend. In future it will be further benefit the proposal made through government manifesto for the development of domestic airports and passenger terminals which is focused to enable internal transportation, tourism and movement of people.

Sri Lankan Airlines offer special Air Taxi services from Colombo to several cities and vice versa on daily basis. These scheduled flights are operated by a private codeshare partner and reservations for scheduled flights offered could be made through Sri Lankan Airlines offices. Air taxies fly from Colombo to Nuwara Eliya twice daily. It is an ideal option for transportation as air transfer saves 85% of the time compared to surface travel. Moreover, this creates a unique and exciting journey with mind-blowing vistas and sceneries.

Even though the Castlereagh at Hatton act as the closest domestic sea port to Nuwara Eliya and facilitate the transport services, still there is potential at Barrack Plain and Kande Ela reservoirs in middle of Nuwara Eliya for circulation of sea planes. The possibility of this proposal will be further discussed in final report. The Figure 3.15 illustrate the available air taxi services providing domestic airports and sea port landing sites within country.

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Conceiving the travel duration for several destinations (Figure 3.15) it is clearly evident that air based transportation is the most time efficient way to travel within destinations. Hence, there is possibility of promoting the mode among the tourists who aims to be the destination rather spending time along their way.



Figure 2.0.14: travel duration for several

	Nuwa	ara Eliya	ŀ	Kandy	Si	giriya	E	Bentota	K	oggala	D	ikwella	Ma	ttala
From Colombo	6 hrs	25 mnts	4 hrs	22 mnts	5 hrs	35 mnts	2 hrs	25 mnts	3 hrs	35 mnts	6 hrs	40 mnts	7 hrs	45 mnts
From Kandy							6 hrs	30 mnts	6 hrs	35 mnts	7 hrs	40 mnts	7 hrs	40 mnts
	_													
	Arug	gam Bay	Trin	comalee	J	affna	V	avuniya	Ка	Ipitiya	Batt	aramulla	_	
From Colombo		gam Bay 50 mnts	Trin 7 hrs	1						lpitiya 25 mnts		aramulla 10 mnts		\mathbf{X}

Table 2.0.4: Travel Durations

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2.2.4) Geographical and Topographical Setting

The Nuwara Eliya City is geographically located in the highest peneplain of the country which has a combination of highly variable landform units and topography. It is a complex of massifs, mountain ranges, plateaus, basins, valleys and escarpments. The city is located in a mono centric valley with a flat arrangement surrounded by the mountains. Thus, the landform is a major contributor to the character of Nuwara Eliya. It provides a picturesque and scenic landscape. They are the major element of visual definition ranges.

The Southern margin of Nuwara Eliya's peneplain stretches for more than 80 km from Adam's Peak (2,443 m) on the west and rise from around 1.000ft to more than 5,000ft at Horton Plains. From the center of the Southern margin, the highest plateau regions and the high plains stretching from Kirigalpoththa (2,395 m) to Pidurutalagala (2.527 m) run towards north.

There are four gaps to access the Nuwara Eliya plains through surrounding hills. The gap at North-East leads to Kotmale Valley, the South-East gap leads to Uva Basin, the West gap to Dimbula Valley and the East gap to Kandapola and Udapussellawa. Some other important mountains and places around Nuwara Eliya are Kikilimana (2.239 m) 1.6 km away along North West of Nuwara Eliya, Kudugala (2,319 m), Totupola (2,361 m), Kirigalpotta (2.387 m), Lover's Leap (2.163 m).3.2 km awaya along East of Nuwara Eliya and Single Tree Hill (2.104 m) 1.6 km away along South of Nuwara Eliya.

Most of major rivers and perennial streams of the country originate in the catchment of these central mountain chain and flow outwards. At present all of these streams are used as a source of water supply or to irrigate agricultural lands.

According to the land use data of the census department in 2012, it reveals that 55% of forest area covers 76 sq. km of total area of 138 sq. km. Considering the study area within the surrounding boundary limitation of Piduruthalagala, Kikiliyamaana, Single tree and Haggala mountain ranges, highest point of the area is 2400 meters along the mean see level and lowest level is 1500 meters alone the mean see level.



Figure 2.0.15: Topographical formation in and around of Nuwara Eliya planning area



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Map 2-0-2: Geo Diversification



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Map 2-0-3: Mountain Ranges

2.2.5) Climatic Conditions

'Little England', adorn in salubrious temperature calls tourists throughout the year by its favorable temperature. The blooming season from March to May which are the warmest months, attracts more and more tourists by its beauty while the winter months from November to February attracts more to chill. A noticeable extent of this hill country lays within wet climate zone whereas a small portion belongs to intermediate zone. The significance of Nuwara Eliya district is that it records the highest rainfall and the lowest temperature of the country. Almost every year Watawala receives the highest annual rainfall exceeding 5,588 mm. Nuwara Eliya usually experiences the lowest temperature of about 7.2 °C (Feb) and occasionally falls below freezing point (0 0 C). Annual average temperature is about 20 Celsius and high temperature is going up to 21 Celsius (in January, February, March months) temperature is experience low down to 9 Celsius in the month of December.

• Temperature Pattern

The mean annual temperature of Nuwara Eliya is about 15.9 C^0 at 1,800m sea level and average maximum temperature for year 2018 is recorded as 23.1 ^{0}C in month of April (highest) while the average minimum temperature was recoded as 10.3 ^{0}C in February. Figure 2.16 depicts the monthly average minimum and maximum air temperature variation in year 2018 as per the records from the observation stations of Nuwara Eliya set by the Department of Meteorology.

Generally, it is considered the months between December to February as colder months and months between March to May as warmer months. This unique feature is one main fascination to make the city a tourist attraction.



Graph 2.0.1: Monthly air temperature variations in Nuwara Eliya

Source: Metrology Department (2018)

Rainfall Pattern

Nuwara Eliya has an average yearly rainfall or precipitation of 1,900 mm (1968-2012 data) and denotes a monthly rainfall range between 70-225 mm. The average annual rainfall in Nuwara Eliya is recorded as 2,173 mm in the year 2018. The maximum rainfall is generally recorded in October and the minimum rainfall in March. The highest rainfall received annually is also recorded from the Nuwara Eliya District as areas such as Ginigathhena (3,267 mm), Watawala (3,252 mm) and Norton (3,121 mm) reach the peak values compared to other areas. Dry climate can be seen in January - April months.



Source: https://www.worldweatheronline.com/nuwara-eliya-weatheraverages/central/lk.aspx 26



Daily drawing capacity of the rainy season is 18773 cubic meters. It goes down to 3830 cubic meter in the dry season. Water resource volume is change 19673 cubic meters to 4730 cubic meter.

• Relative Humidity

The mean relative humidity is low during the dry months of the year. (January, February and March) in other months it reaches as high as 90% causing discomfort and heavy sweating for those who working/traveling outdoors during the sunny weather. During the year it has a relative humidity between 65%-87%.

• Solar Radiation

Generally, because of the sunny conditions which prevail in the both cities, the solar Radiation for the months of February and March in Nuwara-Eliya equal that of Colombo. However, cloud cover is higher in Nuwara-Eliya than in Colombo for the months of April through to January. As for these features Nuwara Eliya is known to be a unique city which attracts visitors from around the world.

2.2.6) Land Use Pattern

The planning area contain with various land uses and almost all these uses are formed with the context of facilitating for plantation, agriculture, tourism and day to day living of human being. As per the land use distribution composition, it seems natural forest, tea and other plantation records the higher extent of land use distribution. Percentage land use distribution is given in the Table 2.4 and shown on the Map 2.4.



Use	Extent	Percentage %
	(sq.k.m.)	
Agriculture	8.542094	16.14
Homesteads	0.435727	0.82
Grasslands	0.536586	1.01
Open lands	0.001245	-
Scrubs	0.61077	1.15
Others	13.323327	25.17
Forests	18.303947	34.58
Vacant lands	.051038	0.1
Reservoirs, Rivers, Waterways	.570771	1.08
Cemeteries	0.014599	.03
Roads	1.118242	2.11
Garden vegetable lands	5.419658	10.24
Residential	0.809755	1.58
Tourism	0.513177	1
Estate houses	0.396977	0.75
Commercial	0.171573	0.32
Education	0.155151	0.29
Industries	0.149338	0.28
Institutions	0.151008	0.29
Playgrounds	0.372297	0.7
Health	0.025226	0.05
Govt. Quarters	0.11222	0.02
Religious places	0.045664	0.09
Gardens	0.236061	0.44
Total	52.06	100

Table 2.0.5: Land Use

Sources – Urban Development Authority

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2.2.6) Water Resources



Figure 2.0.16: Water Bodies

Existence of water resource system based on the mountain ranges concurrent with the forest system in specific coexistencein the central hills. Nanu Oya ela and it's by streams, Barrack Plain Ela, Katumana Ela are the other water bodies. Those water ways covers 1.08% of the total land area. Nanu Oya which is a main water way it stretches 8 km long, and the lake of Gregory covers 90 hectares area while Barrack Plain reservoir covers 40 hectares area.(Map No2.4).







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2.2.7) Demographic Characteristics

• Population Distribution and growth

Nuwara Eliya town is the district capital of Nuwara Eliya district and the administrative town as well. In addition to that it is a tourism center and an environmentally sensitive nationally important town in Sri Lanka. When studying the population in town history it was reported that the oldest data in 1881 population as 1791 and houses reported number was 264. Population distribution in NuwaraEliya municipal council area is showen in Table No 2.3. Also, the Grama Niladari Division wise population distribution and growth in the greater Nuwara Eliya study area is showen in the Table No 3.4.

Year	Population	Population	Population	Year	Population	Population	Population
		growth	Density			Growth	Density
1871	1291			1931	7823	.4	5
1881	1791	1.5	1	1946	10823	2.5	7
1891	2726	5.2	2	1953	14405	4.7	10
1901	5026	8.4	3	1963	15482	.7	10
1911	7406	4.7	5	1971	17880	1.5	11
1921	7525	.76	5	1981	20471	1.8	14

Table 2..0.6: Population Distribution in Nuwara Eliya Municipal Council Area

Sources - 2004-2018 Nuwara Eliya Development Plan

Accordingly, it can be observed that the Nuwara Eliya Municipal Council area population growth was minus growth rate comparative to 2002 and 2012 two years, and it was certain extent high in the 2017 year (to -0.035).

Table 2.0.7: Population Distribution in the Study Area

No.	Local Authority area	Grama Niladari division	GN division No.	Population (2002)	Population (2012)	2012 Population Growth	Population (2017)	2017Populatio n Growth related to
01		Bambarakale	535K	355	3143	-1.23	3340	-0.42
02	ii	HawaellivaE	535H	233	2273	-0.24	2416	0.24
03	'a inc	HawaeliavN	535G	268	2216	-1.94	2355	-0.88
04	Eliya Council	HawaeliyaW	535F	188	2072	0.93	2202	1.03
05		Kalukale	535B	113	1093	-0.35	1162	0.18
06	wai	Kalegaala	535C	187	1829	-0.25	1944	0.24
07	Nuwara Municipal	Maagasthota	535A	157	1408	-0.75	1496	-0.10
08	M	NuwaraEliva	535	187	1290	-3 69	1371	-2 08
09		NuwaraEliya	535D	471	4292	-0.93	4561	-0.22

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10		NuwaraEliya	535L	454	2481	-0.24	4637	0.24
11		Sandathanne	535E	280	2816	0	2993	0.43
12		Kalapura	535N	321	3465	0.77	3682	0.92
13	T	Bangalahatha	476C	316	3333	0.5	3542	0.75
14	his	Buluale	535I	167	1751	0.4	18691	0.70
15	Sabha	Konkodiva	534F	355	3758	0.56	3994	0.78
16		Galpaalama	534A	122	1272	0.39	1299	0.04
17	radeshiya	Goradihela	478	140	1352	-0.42	1432	0.13
18	h sh	Javalanka	534B	142	1431	0.02	1521	0.42
19	qe	Kandapola	534	161	1426	-1.27	1515	-0.45
20	ra	Kandapola C	534C	254	2853	1.14	3032	1.17
21	a P	KandapolaE	534D	956	887	75	943	-0.10
22	Eliya	Meepilimaan	476H	189	2012	0.6	2138	0.80
23	E	Mihindupura	476G	123	1226	-0.09	2303	0.35
24		Park	534P	448	4463	-0.05	4743	0.37
25	val	Peedrua	534H	311	3316	.0.64	3524	0.82
26	Nuwara	Ruwan eliva	476D	267	2972	1.05	3158	1.11
27	Z	Seetha eliva	478A	153	1815	1.69	1929	1.53
28		Shanthipura	535M	131	1408	0.65	1496	0.84
29		Toppas	535J	256	2757	0.71	2930	
30		Windvconer	476E	161	1667	0.33	1672	1.62
		Total	77364	9	8467	-	102451	

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Source - Census and Statistic Department

Population growth in minus value shows in Bambarakele (-1.23) Hawaeliya west (-1.91) and Nuwaraeliya (-3.65) grama niladari divisions when compared to 2012 year – 2002 year data. However population growth rate minus value transfer into favourable condition reducing minus value in the Hawaeliya east , Hawaeliya west, Kalapura, Kalukale, kalegala, Nuwaraeliya west and Sandathanne grama niladari divisional area population growth converted into plus value in 2017. But further the minusvalue of population growth was excisted in the Grama Niladari divisions of Nuwara Eliya East, Nuwara Eliya, Bambarakale, Nuwara Eliya central in the year of 2017. Specially, the areas of the tourism, commercial, Residential uses are the factor reasons to this situation. Relatively decreases of population growth rate for whole area got minus value from 2012 year to 2017 year as 0.0353.

When considering the based population within the 17 Grama Niladari divisions to preparation of the town development plan, it shows the different picture due this situation. It shows considerable population growth in the said Grama Niladari division when comparing the 2012 population to 2002 population and the population growth increases from 0.3388 to 0.5955 to 2017 year. Population growth takes minus value in the Mihindupura, Gorandihela, Kandapola, Kandapola south Grama Niladari division while other Grama Niladari divisions shows plus growth rate. Population growth of the grama niladari division of Seethaeliya (1.69) Kandapola central (1.14) and Ruwaneliya (1.05) are the areas highlighted Grama Niladari division out of other Grama Niladari divisions. Kandapola and Kandapola east Grama Niladari divisional population growth takes minus value when compared to the years of 2017 to 2002 years.



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Further study it shows that the plus population growth rate in the Grama Niladari divisions near the municipal council area. Residential growth in the town takes minus value and population growth in the adjoining Grama Niladari divisions of the Pradeshiya Sabha area was indicated high demand to uses of commercial and tourism uses and adjoining areas than residential uses demand. Study area of 30 Grama Niladari division population growth rate is 2017 was 72294 population. It was nearly 10% of the population within the divisional secretariat area population.

• Population Density

When considering the population density of the study area, it is evident that the high population density in the areas of Grama Niladari divisions of Bambarakale, Shanthipura

Nuwara Eliya North, Hawa Eliya East, Kandapola, Kalukale and Kandapola Central. Population density of the above Grama Niladari divisions were 1000 population per 1 hectare while low density thats below 400 population was reported in the Grama Niladari divisions of Kandapola east, Toppass, Pedro, Jayalanaka and Gorandihela. (map No2.6)



Map 2-0-5: Population Density 2012

Sources - Census and Statistics Department

Ethnic Profile

Population structure by the races of population was 46% Sinhalese, 41% Tamils, 6% Muslims. And 40% of whole population was estate population. (Diagram 2.1).



Diagram 2.0.1: Ethnic Composition

Sources - Census and Statistics Department

2.2.8) Housing Characteristics

According to available data, it is evident that the population of 11008 people is living in 10784 housing units in the year of 2012. According to that it is indicated 224 housing units were in the 2012 year. Main factor influence for this situation was high population living in low income housing areas related estimated housing stock. Another significant factor in this figures shows that 20% of population were living in line houses. Especially estate labors houses coming under this category while they have very low facilities and the 144 houses were shanties is considerable fact.



Grama Niladari Division	No of Families	No of houses	Scarcity of houses	One floor houses	2 floor houses	Houses with more that 2 floors	Attached houses	Flats	Twin houses	Lime houses	Shanties
Bambarakale	787	773	14	445	78	17	32	1	15	175	10
Bangalahatha	816	799	17	285	50	8	17	0	24	412	3
Buluale	429	415	14	326	37	1	27	0	2	21	1
Hawa EliyaE	580	561	19	439	51	1	15	0	1	51	3
Hawa EliyaN	542	537	5	365	58	5	59	0	28	19	3
HawaeliyaW	490	488	2	322	67	4	34	4	0	57	0
Kalapura	840	832	8	380	5	0	24	0	13	407	3
Kalukale	289	287	2	265	13	1	0	0	3	0	5
Kalegaala	453	442	11	231	39	4	19	0	64	85	0
Maagasthota	377	373	4	320	28	2	0	4	10	4	5
Meepilimana	537	523	14	498	15	1	7	0	0	2	0
Mihindupura	319	312	7	292	17	0	3	0	0	0	0
Nuwara Eliya	272	264	8	109	54	0	16	5	12	68	0
Nuwara Eliya C	1017	993	24	625	123	6	63	0	17	137	22
Nuwara EliyaW	578	569	9	198	51	11	57	1	8	232	11
Ruwan Eliya	733	714	19	360	20	0	40	4	22	267	1
Sandathanne	683	668	15	318	34	1	3	0	10	230	72
Seetha eliya	469	453	16	384	28	9	20	0	2	6	4
Shanthipura	357	351	6	335	7	0	9	0	0	0	0
Winyconer	440	430	10	364	16	0	38	0	0	11	1
Total	11008	10784	224	6861	791	71	483	19	231	2184	144
Total percentage of existing houses	f		2.1	63.6	7.3	0.7	4.5	0.2	2.1	20.3	1.3

When considering the housing density within the municipal council area, it shows in this Map No 2.6 that the housing density is higher than other areas in NuwaraEliya comparing to other municipal council areas.







Map 2-0-6: Housing Density 2012

2.2.9) Employment Characteristics

According to the population pyramid shows in the Graph No 2.1 it is noted that 73% of population are in labor force in study area. Male works force more than the female work force and it is 78% of total male population and the percentage of female population is 67%.



Graph 2.0.3: Work Force

Source – Census and Statistic Department



When considering occupied work force in the area, it is noted that 56% of population are employed and 3% of population unemployed population. According to population censes in 2012, it denotes that the 41% of population is most engaged in unfruitful economic activity.





When considering the employed economic activities of the people (graph 2.7) in the area of grama niladari division of Bangalahatha, Kalapura, Meepilimana, Sandathanne Ruwaneliya and Seetha eliya, it shows that the 40% of population engaged in agricultural field and the employees of Nuwara Eliya Central, Nuwara Eliya east, NuwaraEliya West, Hawa Eliya East and Bambarakale Grama Niladari divisions, are most of people of the total population were engaged in tourism and financial services in the area. Within the Municipal Council area employees mostly engaged in tourism and related services and Grama Niladari divisions of NuwaraEliya Pradeshiya Sabha area mostly engaged in agricultural sector. In whole nearly 25% of population in agriculture, 18% and 14% are respectively engaged in tourism and tourism related services.

As per the records in 2012 the ratio between non- dependent to dependent was 16 to 09 within the study area. Means there is a higher amount of population who can actively participate for the economic generation within planning area. Nuwara Eliya as an entire District, comprise with 53.5 percent of state sector working population who is economically directly contributes to the plantation agriculture sector activities.

As a major tea plantation and up country vegetable growing district in the country the planning area also consist with majority of agricultural sector employees that noted as 25% from whole

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employees. Tourism as second economic contributing sector comprise with 18% of total employees within planning area and remarked as one of major economic pillar.



Graph 2.0.5: Categories according to occupied sectors - 2012

Source -Census and Statistic Department 2012

2.2.10) Education Characteristics

When considering the educational situation in the study area, comparing the other districts of the island passes in the study area results of G.C.E. (O/L) and G.C.E. (A/L) took low value in the island. Though the G.C.E. (O/L) results shows the average increase, it shows about 50% when compared to other educational zone of the district, it takes low value in the greater NuwaraEliya study area for great town area. Though the islandwide results of the G.C.E. (O/L) 71% and the G.C.E. (A/L) 70% pass in the stand the result of this zone took the state of results is respectively 53% and 35%, student population in this area is 8600 students G.C.E. (O/L) and G.C.E. (A/L) with 14 schools.

Average of G.C.E. (O/L) results								
Average results	2011	2012	2013	2014	2015	2016		
Sinhala medium	42	34	40	45	51	54		
Tamil medium	34	25	16	56	32	52		
Average of both medium	38	30	28	51	42	53		

Table 2.0.9	Educational	Situations	G.C.E.	(O/L)
-------------	-------------	------------	--------	-------

Sources – Zonal Educational Office, Nuwara Eliya

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Average of G.C.E. (A/L) results								
	Year							
Average results	2012	2013	2014	2015	2016			
Sinhala medium	33	27	34	35	38			
Tamil medium	62	42	50	36	32			
Average of both medium								

Table 2.0.10: Educational Situations G.C.E. (A/L)

Sources – Zonal Educational Office, Nuwara Eliya





Sources – Zonal Educational Office. Nuwara Eliva



2.2.12) Infratsructure Facilities • Drinking water supply

Drinking water distribution within municipal council area is doing by the municipal council. Out of total population 35,000 of persons supplied water facility by residential or commercial no. of 6977 connections distributed by municipal council. Total connections can be categorize as residential connections 3950, economical 411, nonresidential 950 and institutional and others 245. Daily water volume demand in the area is almost 4500 cu.m. And uses can categorized as, 72% water supply is residential 18% commercial and tourism and 10% government and privet institutions.

All those water connections were supplied water from 9 natural water spring stream sources and the water volume distributed at 15 intakes locations to the 7 distribution zones in the town. Water distribution will be done by other excess 9 tube wellswithin the dry season due to without happen water supply interruption.Needed water volume in the dry seasonwillbe supplied from water resources were 3500 cubic meter and other needed water supply of 1000 cubic meter from the tube wells.

Haddon hill is the highest water consumption zone of 70% of total water supply and its main water supply sources are from Pedro and Top Pass water springs sources. And also it covers the town main residential, tourism and commercial zones. Water supply to this area is done by the 5 storage tanks.

Hawa Eliya hospital area and the Mahinda Mawatheresidential area are covered by the lovers leap and lower area zones are daily supplied water volume is1750 cu.m. said above water catchment areasupply water to the high density housing areas of Hawa Eliya and hospital area.

However in the dry season during January to April water capacity reduced to 900 cubic meters. And at that time water supply distribution will be done by the tube well H1, H2, H3, H4 in Nuwara Eliya.

However in dry season during the time from December to April the daily water volume of the storage tanks reduced down to 3500 cubic meters and that time demand to the water volume goes up to 5500 cubic meters. The reason to increase of water demand is the increase of the tourism arrival to the town.

Rural and divisional water supply systems implemented in the Pradeshiya Sabbha to supply water toRuwanpura, Meepilimana, Katumana, Blackpool and Shanthipura Grama Niladari areas. But the Pradeshiya Sabha has no proper water supply system to solve this problem.





Map 2-0-7: Drinking Water Reservoirs

2.2.14) Nuwara Eliya as a Tourism Destination

The legacy of Nuwara Eliya leads from its colonization era which established from 1,800s with the influences of British government. As a result, the existence of reputable British architectural features through the unique climate in the isle, made Nuwara Eliya city as a unique paradise to both local and foreign visitors. More than hundreds of historically significant buildings listed by the department of archeology for the conservation purpose and its further justifies the magnitude of protect the city's inherited morphology even during its evolution towards modern urbanization.

Nuwara Eliya has become a most popular travel destination among the local travelers since its capability of feeling geographic and climatic variation within a short travel. Further it plays a vital role in the up country region, being as a host destination for number of significant attractions distributed in and around the area. Nevertheless, it seems that there are more untapped potentials that is possible to promote among the visitors of Nuwara Eliya. Such capabilities will be further discussed in forthcoming chapters. The best part of the year to visit Nuwara Eliya is considered as its blooming season which is recorded during March to May. This phase of a year presumed as the warmth period and it makes entire flora community in

the region fresh and decorate with enormous of blossomed flowers. Such amazing environment within these non-rainy dry months attracts the highest amount of visitors to area and remarked as the peak period of tourism.

• Tourism season

The city of Nuwara Eliya becomes excessively busy during the peak period in the month of April. This special season has evolved gradually to its current formality since independence. Although it was initially the British and the exclusive locals who visited Nuwara Eliya, over the years this destination became a more casual, social relaxed atmosphere. Thus, whoever prefers this pleasant climate, cool nights and gorgeous flora reach it to enjoy.

During the boom season, the city expects thousands of holidaymakers. It benefits the economy of the city while uplifting the earnings of the tourism sector as well as the business community and the local community. The leading star class hotels, guesthouses, private bungalows and other holiday homes are fully occupied by both local and foreign visitors during this season. During this period, various parties organize many social events including the Carnival, Garden Competition, Art Exhibition, Classic Car Rally, Radella Hill Climb, Tennis Tournament, Open Stage Musical Show, Golf Tournaments, Horse Races, Fashion Show, 4 x 4 Races, Flower Shows, Film Festivals, Badminton Tournaments, Motor Racing, Stage Drama and New Year Festivals .Moreover, the fresh vegetables and fruits grown and enchanting flowers blossomed make the city glamorous and appealing during the boom.

Even though there is no nightlife during the rest of the year, Nuwara-Eliya comes alive in a carnival atmosphere during the season. Thus, making it vibrant to enjoy to the fullest.



Figure 2.0.17: Seasonal Programs

Source: Internet
Greater Nuwara Eliya Development Plan 2022-2032Table 2.0.11: Seasonal Program Calendar

April:01	April:02	April:03	April:04	
Season	Art exhibition &	Garden Competit	ion conduct by NEMC	
	competition @ Victoria hall	Art & craft	Allen .	
Art exhibition		exhibition @	No statement	
		Victoria hall		
April:05	April:06	April:07	April:08	
Garden Competition conduct by NEMC	Magastota hill climb: by Moto	r racing club	SLKC mobile karting	
conduct by NEWIC	Everesting in Sri Lanka Intern	ational Cycle event @ Radelle	track @ Gregory stage IV	
Health baby competition: NEMC	Classic car exhibition @ Greg	gory stage IV: by SMSC	Army food court @	
	Mayor's cup football	<u> </u>	Gregory stage IV	
Classic car rally: conduct by CMSC	competition	and the	Radella hill climb	
April:09	April:10	April:11	April:12	
		- U	a la companya da companya d	
Carnival @ M	unicipal ground	Super cross	1	
Cumivar e m	Tennis: Hill club		Sandy	
Tennis:	Tennis. Tim club	Carnival @ Municipal	ground Perking	
Hill club	· ·	age musical show @ UDA gro		
April:13 Carnival	April:14 Carnival	April:15 Carnival	April:16 Carniv	
		Horse	Super cross	
Hill club Tennis tour		SLKC mobile	karting track	
SLKC mobile kar	ting track : Golf match	Largest potato	halva lunch @ Grand hotel	
Musica	l show Army	food court Musica	l show Army food court	
April:17 _{Carnival}	April:18 Carnival	April:19 Carnival	April:20 Carnival	
		SLKC mobile karting track	Potato halva lunch	
SLKC mobile	e karting track		cal show	
	Potato halva h	Theru perahera	Flower show	
Musical		2 1111	y food court	
April:21 _{Carnival}	April:22	April:23	April:24	
Food court		N/Eliya hill run		
Flower show Film	festival	OX.		
SLKC 1	nobile karting track			
Musical sh	ow		Horse race	
April:25	April:26	April:27	April:28	
Badminton to	urnament @ indoor stadium: C			
1	Awurudu Uthsawaya	Perahera : by NEMC	Road	
	By NEMC	Road Monthly medal:	Stage drama @	
12		Golf match	New town hall	
April:29	April:30	** NEMC : Nuwara Eliya	Municipal Council	
Badminton tournament @	-	CMSC : Cevion Motor Sports Club		
Stage drama @ New town hall				
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During the noted festival period it remarked massive amount of local visitors in Nuwara Eliya. According to the records of Nuwara Eliya MC the daily local tourist arrivals within 10^{th} to 20^{th} April is about 100,000 - 150,000. Facilitation capacity requirement for such dramatic population is a temporal issue which is mainly face by relevant authorities within the peak of the tourism season.





Source: Nuwara Eliya Municipal Council/ Development Plan 2030 (UDA- Nuwara Eliya)

• Types of tourism in Nuwara Eliya

Except the activities in season, Nuwara Eliya as the most beautiful hill station in Sri Lanka holds many fascinating amazements in terms of natural beauty, top attractions, ancient temples, delightful cuisine, and many more. Be it natural environment, places to visit, happenings, people, or food, Nuwara Eliya has ample variety in all aspects to keep travelers hooked to this place.



Figure 2.0.18: Types of Tourism



Tourists arrivals in Nuwara Eliya

As explained in the previous section, Nuwara Eliya Tourism functional area expands over a wide geographical area with the existence of range of tourism attractions. The salubrious climate and the scenic atmosphere have steered to attract tourists to the area. Being situated in the Environmental Sensitive Zone has also led to promote environmental tourism activities.

	Total foreign arrivals	Upcountryvisitors(6%from total)
2014	1527,153	91,630
2015	1798,380	107,900
2016	2,050,832	123,050
2017	2,116,407	126,985

Table 2.0.12: Foreign tourist's arrival to Sri Lanka

Source: Department of immigration and emigration, analysis by SLTDA

Table 20.13: Tourists arrival of famous attractions in Nuwara 1	Eliya
---	-------

	2682	FROM	ZERIE	enst	2016
Foreign Tourists					
Hakgala Garden	12,489	14,713	18,071	74,188	29,192
Hortain plains	39,123	34,065	69.979	87,960	131,670
Galway's forest	82	29	84	49	198
Gregory Park					61,622
Victoria Park					47.294
Moon Plains		1		1 I	8,673
Local Fourists					
Hakgala Garden	587.749	511,879	578,825	742,133	956,815
Hortain plains	184,744	46,511	198,374	328,858	319,999
Galway's forest	3.521	1,084	1,669	2:047	3.345
Gregory Park					771,495
Victoria Park					643,725

Source: UDA Nuwara Eliya (2019)

As reported in the Tourism Statistical Report of Sri Lanka Tourism Development Authority it is said that six percent (6%) from the total arrivals to Island, visit upcountry which exist major tourism destination such as Nuwara Eliya, Ella, Kandy, etc. Accordingly, the statistics in Table 4 represent the average amount of total arrival of tourists of Sri Lanka and up country separately.

However, since there is not having a reliable record about the no of local and foreign tourists in Nuwara Eliya, the entry data of most popular tourism attractions have been taken into consideration for further calculations. Accordingly, the visitor's arrival data at Hakgala garden,

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Hortain plains, Gregory lake park, Victoria park and Galways park been considered for past several years (Table 5). As depicted it can be noticed that the majority of foreign tourists visit Hortain plains where a greater number of local tourists visit Hakgala botanical garden. Hence as per the assumption of almost all locals visit Hakgala garden and almost all foreigners visit Hortain plains, it is capable of justifying annually there are approximately 132,000 foreigners and 1 Million of locals visit Nuwara Eliya.

The statistics represent a positive regular growth in trend of visiting Nuwara Eliya for both local and foreign categories. Means Nuwara Eliya has already established as a prominent tourist destination in Sri Lanka. Therefore, there is no doubt that the demand of global and national travelers will be increased for this masterpiece of highland in Sri Lanka except if there will not have any common threaten as occurred during couple of years such as less security conditions with terrorism attacks and global pandemic situation (Covid-19).

• Future scenario of tourist's arrival in Nuwara Eliya

Since the particular plan objectives to facilitate the conditions up to 2030 it is obvious to obtain a sense of future scenario of visitor's arrival. Accordingly, it has forecasted the annual amount of visitors using the statistics in Table 5. According to the performed geometric trend analysis with the assumption of, current tendency of visiting Nuwara Eliya will continues in future by following same scenario with no external positive or negative impact, the expected visitors will be recorded as approximately 2,727,000 locals and 505,000 foreigners in year 2030 (Table 2.0.15and Graph 2.0.8).

Graph 2.0.9: *Trend of tourists' arrival* prediction for Nuwara Eliya in 2030



(As per the business as usual scenario)

Table 2.0.14:	Tourists	arrival	prediction for
---------------	----------	---------	----------------

		Nuwara I	Eliva in 20
	Year	Locals	Foreigners
	2012	587,749	39,123
t	2013	511,879	34,065
COL	2014	578,825	69,979
Precise count	2015	742,133	87,962
ď	2016	956,815	131,670
	2017	982,473	144,257
	2018	1,148,114	178,209
	2019	1,294,990	204,242
	2020	1,416,130	232,998
82	2021	1,531,599	257,067
	2022	1,684,775	287,478
IOI	2023	1,808,053	313,408
Projection	2024	1,935,581	<mark>34</mark> 0,882
Pre	2025	2,069,911	367,999
	2026	2,204,316	395,947
	<mark>2</mark> 027	2,330,831	422,601
	2028	2,464,028	450,203
2.2	2029	2,596,282	477,500
	2030	2,726,814	504,827

(As per the business as usual scenario)

• Duration of stay in Nuwara Eliya

According to Greater Nuwara Eliya development plan done by UDA, has identified the most frequent average duration of stay in Nuwara Eliya as two (02) nights and the fact has been further confirmed by the casual interviews held with hoteliers. Both local and foreign visitors stay Nuwara Eliya with the expectation to enjoy the natural view, pleasant climate, atmosphere, and special tourist activities such as hiking, site seeing, refreshing in botanical gardens, perform water sports at lake Gregory, conduct religious rituals, participate in special events and festivals etc.

3.4.3 Types of tourists

As per the recorded data in Table 6, it's justify 10% of the tourists visiting Nuwara Eliya found to be foreign tourists whereas 90% recorded as local visitors. Most of the local community as families visit Nuwara Eliya to enjoy its unique climate, charming views and special events held during the peak period of tourism from March to May. It is especially identifiable that most of educational visits Organized by schools all over the country select Nuwara Eliya as their destination and has become a trend and famous for such educational travels.

Where it conceives the origin of foreign visitors, majority were recorded who travels from the best economic countries in USA, Europe and Middle East. As a percentage it comprises 83% from overall foreign visitors. Apart from that, Asian, and Australian and African country's visitor's preference also ranked at a higher level (Figure 24).





Source: Social and demographic featureas of tourists vistis Nuwwar Eliya, Harshani (2019)

• Categorization of Tourists by Age

The topmost of the foreigner's age group who visit Nuwara Eliya is recorded by young tourists who are between the age 20 and 29 category. It is about 45% from overall composition. The age group between 30 to 39 years include 36% from the total composition and this category is seeming that mostly travel with their families to enjoy the nature and atmosphere of Nuwara Eliya. The statistics and the perception of the hoteliers concluded that Nuwara Eliya is popular among the young generations accompanied as families and friends in both local and foreign contexts.

• Categorization of Tourists by Occupation

When considering the tourist's occupations who visits Nuwar Eliya it seems that majority of visitors are engaged in reputed occupations. As statistics it records majority are professionals (37%) and others includes in few percentages as illustrated in Diagram 2.0.4.



Diagram 2.0.3: Annual income of foreign visitors of Nuwara Eliya

Source: Social and demographic features of tourists visits Nuwwar Eliya, Harshani (2019)

Graph 2.0.10: Annual income of foreign visitors of Nuwara Eliya



Source: Social and demographic features of tourists visits Nuwara Eliya, <u>(2019)</u>

Further, it has found 92% of foreign visitors of Nuwara Eliya are graduates and post graduates whereas 70% having an income between 20,000 to 60,000 USD per annually (Figure 25). Hence it is obvious that majority of the visitors of Nuwara Eliya are affluent comparatively with other destination within hill country.

3.4.4 Accommodation facilities

There are different types of accommodation facilities located within the boundary limits of Nuwara Eliya tourism functional area varied from tourist hostels, city hotels, guest houses, private cottages, villas, bungalows, to homestay and etc. It seems that most of the accommodation facilities in whole Nuwara Eliya tourism functional area are concentrated within an area of 24 km² which covers by the municipal council (MC) area of Nuwara Eliya and little beyond of NEMC.

As per the records of UDA development plan (2020- 2030) the accommodation facilities available within the tourism facilitation area, within city is, approximately 1,800 no of rooms altogether with star hotels to homestay. As per the statistics of SLTDA 2019 first quarter report there are only 09 hotel projects obtained the approval of SLTDA within Nuwara Eliya District and facilitate accommodation with 714 no of rooms which provides standardized facilities.

Tourists' Choices of Accommodation Facilities

According to the Airport KIOSK self-survey statistics in SLTDA report (2019) noted that generally majority of foreign travelers (65%) visits Sri Lanka preferred to stay in hotels. The interviews had with hoteliers at Nuwara Eliya, evident that most of foreign visitors prefers to stay at tourist hotels whereas most of local visitors prefer to stay at circuit bungalows, cottages and homestays.

• Price Range of Accommodation Facilities

Usually the price range of accommodation facilities in Nuwara Eliya varies from 2,000 LKR to 60,000 LKR depending on the class, standards of the facilities, location and view. As per the interviews with hoteliers noted that, price of accommodation dramatically increases during the peak season as the demand rapidly rises. Moreover, the accommodation prices inversely vary with the distance from the city center which means the prices of accommodation in the city area are greater than of which located in remote areas.

• Food & Restaurants

Nuwara Eliya has ample variety in all aspects to attract both local and foreign travelers to this place. In fact, there is considerable number of great restaurants, cafes, bakeries, diners, bars & lounges located on the way to and within Nuwara Eliya to satisfy and provide one of the best dining experiences in the country offering everything from Sri Lankan cuisine to well-known international cravings. The average price ranges from LKR 500 to LKR 3,500 per person concerning the food menus they prefer.

The classy designs of facades, furniture and overall interior and exterior spaces with British architectural character make these spots unique and inviting. During the peak season, a great number of temporary stalls and huts set within the city limits and banks of Lake Gregory provide a variety of food items to its visitors. Nevertheless, it is recorded less no of SLTDA registered restaurant as 5 in count within entire district. (SLTDA 2019 – first quarter report). As well as where it refers the feedback of visitors regarding the quality of foods delivering within area some times without doubt it should have to make pay the attention of relevant authorities to solve the issues arise in this topic. The negativities of delivering proper foods and accommodation facilities will be further discussed in next chapter under the issues in tourism facilitation.



• Shopping

Since Nuwara Eliya performs as the main administrative city of the district, it consists of almost every kind of government and private sector institutions. Hence, to facilitate for the commuters of these institutions there is well established retail market that can use for day to day requirements. This condition positively benefits for both local and foreign visitors. Nevertheless, as a major tourism destination in Sri Lanka it is still requires a qualitative and innovative marketing strategy improvement to be carried out to provide a remarkable shopping experience for its visitors.

3.4.5. Attractions in Nuwara Eliya

Except family 's or friend's celebrations and activities arranged for adrenaline junkies in the April which is calling the spring festival season of Nuwara Eliya, there are numerous of naturally formed breathtaking sites are opened to visitors all around the year. If you are a person who don't take rain as an obstacle to your visit, of course Nuwara Eliya is an year round paradise in earth to feel the magnificent beauty what the nature has produce. If you supposed to enjoy the inherited architecture of Nuwara Eliya along its streets, drink hot cup of tea after exploring well managed tea garden, or a warm visit to water fall, urban forest, hike to a peak and feel the almighty of horizon then you better choose a no rainy season for your visit.

Anyway there are many of tourist attractions scattered in and around the Nuwara Eliya city which comes under the categories of religious and mythical, gardening, forest, mountain trekking, hiking, plantation, chasing waterfall, relaxing and refreshing, etc., Accordingly, by conceiving the capability of visiting attraction sites keeping Nuwara Eliya as host destination following attraction sites has been identified as most popular and potential destinations in Nuwara Eliya tourism functional area.





Greater Nuwara Eliya Development Plan 2022-2032 Map 2-0-8: *Tourist's attractions in Nuwara Eliya*

• Gregory Lake



Figure 2.0.19: Gregory Lake - Nuwara

Set in the center of Nuwara Eliya City, The Gregory Lake area attracts almost every visitor of the city. It is sort of a lake park with many recreational activities. With the lush greens around it offers the visitors an ancient British era tradition of picnicking on the shore of the lake along with modern activities such as boat rides, pony rides along the shore, water walking balls, water sports such as jet skis, windsurfing and many more activities. Thus, Gregory Lake is a fun filled family friendly location which offers great experience.

Gregory Lake was built by Governor William Gregory during the British era for the main purpose of providing electricity. However, it has been used for leisure and recreational



activities throughout the history and become one of the most prominent attractions in the city in the present.

Queen Victoria Park

The Queen Victoria Park of Nuwara Eliya is said to be named to commemorate the 60th Jubilee Coronation of Queen Victoria in the year 1897. With an area of 27 acres in size, the park is home to a large variety of trees and plants including many foreign species of trees. The lakes that flow along the park enhance its beauty.

The park is a frequently-visited attraction of birdwatchers as the serene atmosphere offers the opportunity to observe a large number of rare birds. Moreover, the fresh mountain air and picture worth sights make it a place to relax and enjoy. The park comes alive with the flowers bloomed in the month of April. It is also preferable to visit the park in March, May, August and September.



Figure 2.0.20: Queen Victoria Park - Nuwara Eliva

Galway's Forest

Galway's Land Bird Sanctuary located within the city limits of Nuwara Eliya is heaven for nature lovers and bird watchers as it houses many rare migrant bird species and native species. According to the Field Ornithology Group of Sri Lanka, it is considered one of the most significant birding sites in Sri Lanka.



Figure 2.0.21: Galway's Forest - Nuwara Eliya

It was declared as a wild life sanctuary in 1938 and upgraded as a national park in 2006 to conserve the montane eco system. This attraction is great to adore the diversity of avifauna and flora. A walk along the paths in this lush green environment offers beautiful vicinity. The tumbling waterfalls and mist shrouded mountains too add colour to this beautiful place. The arrival of migratory birds happens during the north-east monsoon season. Hence, visitors are advised to visit the sanctuary during this time.



• Single Tree Hill

'Single Tree Hill' is a pinnacle which creates brilliant panoramas of the entire Nuwara Eliya City and grandeur mountain ranges lying across the skyline. A clear summer day conveys the views of Lovers Leap, Piduruthalagala Mountain, Lake Gregory, the northern valley and the southern valley of Adam's Peak, Seven Virgin Hills, Conical Hill and Uda-Radella mountains.

For trekkers who reach the top of The Single Tree Hill which is known to be the seventh highest mountain located 6890 feet above the sea level, it offers the vistas of the best cloud formation and also the reflection of the mountain through Gregory Lake. Moreover, for whoever reaches the pinnacle early in the morning, the sunrise creates brilliant panoramas that are perfect for any photograph.



Figure 2.0.22: View from Single Tree Hill - Nuwara Eliya

• Moon Plains

The beautifully created Moon Plains is an attraction located just off the Nuwara Eliya city with an altitude of 6,200 feet above mean sea level. The major interest of its visitors is the viewpoint of the 'Mini World's End' which is located on the apex of a sharply dropping cliff, that gives a spectacular 360° unique picturesque view of the surrounding landscape including the mountain ranges such as Pidurutalaga, Single Tree Mountain, Kikiliyamana Mountain, Great Western Mountain, Konical Hill Mountain, Kirigalpoththa Mountain, Thotupola Mountain, Hakgala Mountain and Namunukula Mountain. At times Moon Plains is also referred to as "The second world's end".



Figure 2.0.23: Moon Plains - Sandathenna

It was once a dump zone but now been cleaned, reconditioned and classified as an Agricultural and Environmental Tourism Zone. It is surrounded by cloud forests and unique diversity of flora and fauna that has similar characteristics to that of Horton Plains. Moreover, it is well recognized for rich bio diversity, its flora to high level of endemism.

Moon Plain covered in a verdant carpet of healthy grass makes an ideal place for a hike or a cycling tour, with beautiful landscapes spread along a large area. Mornings and evening excursions are the ideal time to visit this attraction. This photo-worthy location is not to be missed by anyone who visits Nuwara Eliya.

• Shanthipura – City viewing point

This spectacular point to view the entire Nuwara-Eliya city is located at an altitude of 7339 feet in the highest village in the entire island, on the slopes of the splendid Kikiliyamana, the fifth highest mountain in Sri Lanka.



Figure 2.0.24: Shanthipura City Viewing Point

The charming Buddhist pagoda is the centerpiece of this highest village to greet its visitors and shower blessings over the entire island. Spectacular views of Pidurutalagala Mountain, Adam's Peak, Gregory's Lake, Hakgala Mountain, Nuwara Eliya City and Kikiliyamana Mountain are assured from the observation deck set in Shanthipura. Apart from the spectacular views of provided, the villagers' houses around this attraction spot let its visitors experience the villagers' lifestyles and the fascinating methods they use to farm on the slopes. Hence, it offers a unique experience as well as pictures to make a lifetime worth memories.

• Piduruthalagala Mountain

The Piduruthalagala Mountain, the tallest mountain in the island also known as the Mount Pedro is situated north – north east to the Nuwara Eliya city at an elevation of 8292 feet according to the Survey Department. It is known to be the only ultra-prominent peak in the country and one of the 1515 ultra-prominent peaks identified around the world (An ultra-prominent peak is a mountain summit with a topographic prominence of 1,500 metres).

The mountain of Piduruthalagala has a forest reserve surrounding it. The area of the mountain and forest reserve has been designated an ultra-high security zone due to the summit being used to house the communications array of the Sri Lankan Government and the Armed Forces of the country.

The journey of 12km along this trekking mountain is a unique experience with magnificent vistas created by the misty mountain tops and mountain ranges in vicinity. The mountain is residence for a variety of animals, plants, birds and flowers including endemic and non-



endemic. Thus, this is a place brimmed with a wide range of wild life activities which anyone could enjoy.



Figure 2.0.25: Piduruthalagala Mountain - Nuwara Eliya

The peak is not open to the public on most of the months. However, permission is offered to drive to the top during certain periods of time. Trekking is strictly restricted in the area and vehicles which enter the zone need to be driven from the base point to the upper point without stopping for security reasons. The visit to the site early in the morning will avoid the rush while giving some spectacular views.

Race Corse - Nuwara Eliya



Figure 2.0.26: Race Corse - Nuwara Eliya

Set in the middle of Nuwara Eliya City amidst the magnificent mountain ranges, Race Course reminisces of the fashionable venues in British era back in the date. It is said that John Baker introduced horse racing to the hill country and built the training course in the 1840s for his imported English horses of the thoroughbred breed.

It is noticed that the current race course was laid out in 1900s and it is the only race track in the country used for the purpose of horse racing to date. Currently, five horse racing meets are held during the April season and the most notable and prestigious race, the Governor's Cup, a furlong race for Class I thoroughbreds is held during this time. Meets are also held in August and December.

Golf Club - Nuwara Eliya

Located in the heart of Nuwara Eliya, Golf Club maintains an exclusive space with colonial past customs and traditions to this day. Founded in late 18th century, the Nuwara Eliya Golf Club is one of Asia's oldest golf clubs, and perhaps the world. This elegant combination of old-world superiority and revolutionary conveniences with sensible essence has made it an appealing place.

The 18-hole course, 6,399 yards long, is a testing par 71 and is made up of long, narrow fairways, bordered by rows of tall eucalyptus trees and cypresses, held together by thick acacia shrubbery. The course terrain offers the professional golfers a series of challenging

obstacles, with a series of wavy dales, hills and water hazards. On the other hand, despite its natural difficulties it is also capable to offer the best to an enthusiastic amateur. The weather could be quite misty during the winter season, making it challenging to play hence, it is better to play during the summer season.



Figure 2.0.27: Golf Club - Nuwara Eliya

Seetha Amman Hindu Temple

Located on the way to Hakgala Gardens, Hindu Sitha Amman Temple at Sita Eliya reminds of a well-known epic which runs back to the history. As for the epic, this temple is said to mark the spot where Sitha was held captive by king Ravana and where she prayed daily for Rama to come and rescue her.

The Sitha Amman Temple is dedicated to Sitha, and is regarded by Hindus with everlasting reverence. Devotees of this place claim the temple bears signs of the feet of Lord Hanuman as he rested here after the battle to save Sitha from Ravana. Some believe these signs are of king Ravana's elephant. People also think on the opposite bank of the river there is a rock where Sitha sat and meditated. During her stay, it is believed the stream that runs from the hill had supposedly gratified for Sitha's needs.

Three idols were discovered in the stream about a century ago, one of them being that of Sitha. Thus, for centuries the idols are believed to have been worshipped at this spot. Visitors thronged enthusiastically to this spot where Sitha supposedly had bathed, the stone on which she stood and where she spent time in prayer. Devotees are persuaded that this episode of the



epic Ramayana has traditionally taken place here, and the site is becoming increasingly important as a tourist destination.

The temple opening hours vary upon the sunrise, and it is open for visitors till sunset. It remains closed for an hour in the afternoon. Whoever wish to attend the rituals, could visit the temple in the morning or evening.



Figure 2.0.28: Seetha Amman Hindu Temple - Seetha Eliya

Hakgala Botanical Garden

Hakgala Botanical Garden situated on the Nuwara Eliya - Badulla A5 Highway with an altitude of 5,400 feet above the sea level, is believed to be one of the highest set botanical gardens in the world.

This botanical garden was established in the British era (1861) for cultivation of the medicinal crop Cinchona. Afterwards, the history records that it was used for Tea cultivation. Today, Hakgala Botanical Garden positions firmly on its beauty with over thousands of species of flora including famous species of Orchids and Roses. The British influenced gardens, trees that splendour in real green, the flowers that flame in shades and foster well by the cool climate and uncommon birds among the greenery make Hakgala one of the most pleasant attractions found in the Island. The period in the months of April and May is the best for a visit to this floral paradise.



Figure 2.0.29: Hakgala Botanical Garden -Haggala

Hakgala Botanical Garden adds variety to the visitors' experience. Thus, it is undoubtedly a fascinating attraction which attracts a massive number of visitors annually in the country.

Lovers Leap Fall

Lovers Leap as for its name itself explicates, has its own tragic tale to let the world know. The folk story on how the fall got its name is from a prince who fell in love with the beautiful damsel who rescued him when he had lost his way while hunting in the jungle. Their inseparable love amidst the mismatches with royalty made them decide to immortalize their love by leaping from the top of the fall to their death. May be for this reason, it seems as it has its own mysterious charm. Even today, superstitious villagers avoid the fall at night.

This impressive fall lies in close proximity (3km approximately) to Nuwara Eliya City with a height of 30m. It emerges from the streams and brooks of Sri Lanka's highest mountain, the Piduruthalagala. It flows over hard granite ledges and the water is collected in a tank and used for drinking. During the dry season the fall flows languidly whereas it becomes spluttering during the wet season.

The adventurous efforts to reach this enchanting attraction through the winding roads, gravel paths, foot-only tracks along the tea estates and steep climbs are absolutely worth as they lead to one of the most picturesque sites in the island.



Figure 2.0.30: Lovers Leap Fall - Nuwara Eliya

International Buddhist Center

Located right in the center of this vibrant city these lovely white pagoda emblems the Buddhist culture and heritage of the country. Almost everyone who visits the Nuwara Eliya City should probably pass by this place. It certainly offers the ambience of peace amidst the busy streets of this crowded city.



Figure 2.0.31: International Buddhist Center Nuwara Eliya



Post Office Building

This prominent public service office located right in the heart of the city of Nuwara Eliya certainly stands out among the famous colonial buildings as an iconic landmark. The vibrancy it creates with its charming exterior makes it unique and complements the city to bring back memories of Colonial British Ceylon.

The Post Office of Nuwara Eliya was built by the British back in the year 1894. It is therefore one of the oldest post offices in Sri Lanka. The building characteristically resembles architectural features which belonged to the British era in early Sri Lanka. This majestic Tudor-style two storey building cannot be missed while one is on the streets of Nuwara Eliya. The clock tower which spirals from one side of the building, the brilliant red coloured bricks, stripes as well as the roof have brought a distinctive edge to this remnant. It is now an archaeological protected monument, declared by a government gazette notification published on 23 February 2007.



Figure 2.0.32: Post Office Building Nuwara

2.3. Delineation of the Planning Boundary

1) It was considered 30 Grama Niladari division to identify the study area of the greater NuwaraEliya development planning area as mentioned in the above chapter 3.1 .Study was done in the field of economic and social and environmental areas within the limits of administrative area with considering physical and geographical features in the area so as to identify the planning boundary of the Greater NuwaraEliya development plan area. Development plan prepared forNuwaraEliya town for 2004 - 2017 period, that is presently implementing also identified its planning boundary. This area included 12 Grama Niladari areas.





2) According to the existing physical environmental background of the area, considering main 4 mountain ranges, decided as boundary limits of their municipal council area as a town limit. Accordingly Piduruthalagala, Single tree, Kikiliyamana, Haggala 4 mountain ranges and their forest area can be considered as physical boundary of the area. Also it is considered the Parts of the forest areas in the Grama Niladari divisions of toppass, Kalapura, Bangalahatha, Windyconer, Ruwaneliya, Gorandihela and Jayalanka forests areas are the limits of planning area.





Map 2-0-10: Physical Boundaries

1. Functional boundary limits

Detailed study was done to identify the most suitable tendency developable planning areas with the idea of planning point of view. Using criteria and weightages as shown in Table No 2.8 using multiple analysis criteria and weightages in to it, identify the most developable tendency area and as well as environmental sensitive protection areas as shown in Table No 2.9. By that analysis identified the most suitable developable area for the development plan within the 30Grama Niladari divisions. According to that identified the considerable indexes. When deciding the indexes, considered the achieving development goals environmental sustainability in the NuwaraEliya townand adjoining areas.

Accordingly based indexes and put weightages deciding the developable planning area shown in tables below.

Appling above weightage method through multiple criteria analysis system identified most development tendency area of 20 Grama Niladari divisions as development planning area possessed with most development tendencies. Accordingly, below Grama Niladari divisions identified as new development planning areas.

Table2.0.16: Based Indexes for Functional Boundaries

	Index	Place	weightage
01	Tourist hotels/guest houses	1	10
02	Situations of buildings	2	9
03	Water sources/Water systems	2	9
04	Forest area reducing trends	2	8
05	Tourist attracting priority	3	7
06	Infrastructure facilities	4	6
07	Population density	5	5
08	Establishment of distress zones	6	4
09	Development criteria (Approval of	7	3
	development plans and permits)		
10	Annual population growth rate	8	2
11	Density of service activities	9	1

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Map 2-0-11: Planning Area



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When considering environmental situation within this study area, it belongs main mountain ranges like Kikiliyamana, Piduruthalagala, Single tree and Haggala as its boundary. Highest level is 2400 m. mean see level and lowest level 1500 m mean see level are the areaheights within thestudy area. Main water ways of nanuoya Ela, Barrack Plain Ela are the tributaries within the area and they are catchment area of Mahaweli River.

To prepare the Greater Nuwara Eliya development plan for 2022–2032, it was considered active boundary is the most suitable area for the development planning area as planning point of view.

However considering the convenience to preparation of action plans, enforcement, feedbacks, selected nearest adjoining Grama Niladary boundarylimits as the development planning areaboundary. Accordingly considered based Grama Niladari divisions to preparation of greater NuwaraEliya development planning area for 2019-2030 as shown in below Table 2.0.17 as follows.

	Grama Niladari division	Division No
1	Bambarakale	535K
2	Bangalahatha	476C
3	Buluala	535I
4	HawaeliyaE	535H
5	HawaeliyaN	535G
6	HawaeliyaW	535F
7	Kalapura	535N
8	Kalukale	535B
9	Kalegala	535C
10	Magasthota	535A
11	Meepilimana	476H
12	Mihindupura	476G
13	Nuwaraeliya	535
14	Nuwaraeliya C	535D
15	NuwaraeliyaW	535L
16	Ruwan eliya	476D
17	Sandathanne	535E
18	Seetha eliya	478A
19	Shanthipura	535M
20	Toppass	535J
21	Windyconer	476E

Table 2.0.18: Development Plan Area



CHAPTER 03- NEED OF THE DEVELOPMENT PLAN

3.1. Need of the Development Plan

It is considered that the presently neediness of the developed town in this chapter. Nuwara Eliya town development should be done to achieve plans targets by most seriously adjusting with protecting the environmental sensitivity and environmental scenic beauty as its location specially is in the high altitude area.

- 1. Prepared development plan by the Urban Development Authority expired after 2022 year; therefore need arise to prepare new development plan for next 10 years of period.
- 2. Nuwara Eliya town development trend stretches towards its out limit of west direction can be considered as main factor when considering development demand and its development tendencies. Nuwara Eliya new development trend can be seen in the above chapter 3.
- 3. No proper guidance to future development challenges, no identifiedweaknesses and solutions as identified in this chapter through the presently implementing development plan.
- 4. Specially identified many main issues arise in the area.



3.2. Identification of problems

In the process of problem identification, 6 areas of data and detail collected from the resources persons were summarized. In the diagram above shows the different areas of resource persons and institutions were participated the workshop to express their ideas. And study was done with the collected details, regarding the existing problems in the area.



Basically 16 problems were identified by the resource persons and institutions looking into problems with different angles. Resource personal seminar was held on 17thDec. 2017 at the Nuwara Eliya Municipal Council. Six problems were given priority out of 16 problems.

- 01. Sensitive land encroachment
- 02. Drinking water pollution
- 03. Water source systempollution
- 04. Water source reservation and catchment area encroachment
- 05. Lack of proper facilities in roads
- 06. Scarcity of water when dry seasons
- 07. Changing the image of Nuwara Eliya town
- 08. Building construction obstructing view points
- 09. Reducing forest areas
- 10. Changing the land uses.
- 11. Mix the drainage water to the water sources
- 12. Lack of basic facilities to tourists
- 13. Changing the architectural features hereditary to Nuwara Eliya
- 14. Lack of landscaping in the town
- 15. Lack of walking facilities to pedestrians

All the problems identified were categorized under the six areas

3.2.1.Prioritize the problems

- **1.** Gradual diminishing of the Inherited City Image with emerging Haphazard Development
- 2. Quality and Quantity Issues on Surface and Drinking Water Sources which create less assurance of Accessibility to Safe Drinking Water and Unpleasant Environment.
- 3. Low facility houses, slum and shanties
- 4. Road conditions are not up to standards. Inadequate Infrastructure Facilities Disturbing the Smooth Function of Tourism Activities

5. State land are not directing to suitable development.

3.3. Detailed study in basic problems3.3.1. Gradual diminishing of the Inherited City Image with emerging Haphazard Development

Cities are perceived and lived by millions of people thus, there is a two-way interaction between people and cities. Even though the city experience differs from person to person based on personal experiences, attachments and memories, yet there is an overall mental image shared by all. (Lynch, 1960). The meaning of town image is a "thought, memory or sight is in one's mind regarding a image or mental picture of a town or of an area according to the book written by veteran town planner Mr. Kevin Lynch. Physical environment and its features are themost influenced factor to themental picture in one's mind.

As per the Perception Survey carried out by the planning team, Nuwara Eliya seems to have lost its healthy image that existed back in time. The findings brought forward that the built environment obstacle on scenic view, context incompatible architectural characters, distribution of underserved settlements and declining trend on vegetation cover have led the city towards being less attractive.

Nuwara Eliya may have a delightful climate and be surrounded by lovely tea fields but the town center itself is run down and ugly. Victoria Park and Golf course are attractive. There are few old English style buildings but, in general the town is dilapidated.

Member TripAdvisor – Austria February 2017

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Physical environment and its features pictures depositedone mind are level power to attractive that town. According to that there are few physical and environmental features are that are deposited one's mind with the very beautiful and with environment very scenic Nuwara Eliya are follows,

- A high altitude system
- Cool and rainy environment system.
- Natural landscaping features those are flowers, waterfalls, clean water resources.
- Architectural features that were colonization period.
- Upcountry vegetable cultivation.
- Pears and strawberry cultivation.
- Tea cultivation.

But, due to the human activities, this Nuwara Eliya image is degrading gradually. But the way it can be identified that the attitude of the people regarding Nuwara Eliya town decreases and destroying. Specially land encroachments, dirty surface water sources, view point covered by buildings, changing the building features, sensitive landscapes destroying, changing the land uses, reducing the forest cover, land encroaching in the water resources, waterfalls covering by constructions due to said factors, one idea regarding the changedimage of Nuwara Eliya. Due to that reasons persons image attitude to attractive to Nuwara Eliya decreased. That reason affected harmful to tourism economy and attraction to Nuwara Eliya. At last it is severely affected to build harm to the economy.



• Built Environment Obstacle on Scenic View

Visual quality of a city plays an important part with regard to the mental image of a city, as what is being seen (visual experience) largely contributes to build up a mental image. However, it is significantly noticed that the natural scenic landscapes around the Nuwara Eliya city have been obstructed by the physical features such as vivid colored buildings, boundary walls, service towers, service lines etc. As a result, a traveler could hardly find attractiveness within built area. This has negatively affected the tourism economy in the city as it is incapable to offer the unique and pleasant sense of the place.

• Covering the landscaping sceneries

Town image or mental imagination in regards to the town to person who travel through the town does not view the landscape sceneries of the locations of mountain ranges as well as tea states and due to constructing of building covering landscape view of waterfalls is a problem. Specially mountain range of Magasthota, Nasby estate, Single tree mountain range, Uniqueview mountain range, Piduruthalagala mountain range, Glain fall waterfall, Loversleap waterfall are covered by building can be shown in following pictures.

Figure 3.0.1: Inappropriate construction obstructed the natural scenic view of the mountain ranges



Captured by – Mr. Nilantha Paranagama 2017 Anonst 2017 ละดูเการ์สร้อง

• Drying of waterfalls

The catchment areas of waterfalls are dried due to unauthorized cultivation and encroachment of water sources. Glainfall is the major `water fall which is currently inactivated due to the above reasons.



Figure 3.0.2: Drying the waterfalls

According to that it is evident that the sceneries of waterfalls and mountain ranges that are unique to NuwaraEliya are obstructed by irregular human activities. This is main reason to change the image of NuwaraEliya.

• Encroachment to water resources and water line reservations.

Disturbances for the major water sources and its purification Encroachment of main water reservations and water line distribution system of NuwaraEliya town is directly affects to the major water sources and its purifications. Because, are not having proper understanding about the water quality of the area by most of the people of the area and commuters

According to Map No 3.1 it shows the invasion to main problems and the gramaniladari divisions of Bambarakale, Hawa Eliya east, Hawa Eliya west, Nuwara Eliya central, Sandathanne, Ruwan Eliya, Windyconer, NuwaraEliya are the area where most of encroachment of reservations occurred and its percentage 5%.







• Decreases of Forest areas.

Natural forest cover and mountain range is the main factor of the area. Though the fact is that, the related forest area from 2010 to 2017 was decreased to 15% in NuwaraEliya district.

Accordingly the forest areas in 2010 were 40% reduced to 34% in 2017. Hence, the minimizing of sceneries of mountain ranges was the one reason to change the image of NuwaraEliya.







Map 3.3: Forest area(40% 55.1 Sq.k.m.)2017



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Since the volume of ground water is decided by the density of vegetation cover on the surface, the hill country plays a vital role as it is the heart of the country's water catchment. Accordingly, the natural vegetation cover which consists of inborn flora community actively engages in concentration and circulation of ground water sources in the area and helps to keep-up the pleasant climate condition and scenic beauty. Nevertheless, the trend of urban sprawl has become the reason for the gradual decline of vegetation cover distribution in the upcountry. Unplanned tourism sector developments, tea plantations and housing distribution directly influence this situation.

Considering the systematic analysis done on this regard is further used to detect the future scenarios which seems to be hazardous. Accordingly, the Normalized Difference Vegetation Index (NDVI) Analysis performed covering the whole study area (NEPS) for the years 2001 and 2019 show only a minimal change (3%) in vegetation declining. However, if the ratio between built up area (ha) to green space area (ha) continue as it is for the next ten years, there will be a significant environmental change as noticed in the given Table 3.1.

Year	Built up area (ha) :	Green	Space area(ha)
2001	1	:	27
2019	1	:	14
2030	1	:	7

Table 3.0.1: Ratio between built up and green space area distribution within NEMC

The NDVI Analysis (Figure 82) which covers the boundary of Nuwara Eliya Municipal Council shows a worse situation compared to the Pradeshiya Sabha area. As shown in Table 11 the declining percentage of vegetation in the NEMC area is 13% for a period of 20 years. Recorded 71% of green space in year 2019 within MC area will reduce up to 64% by the year 2030 if the same built-up trend continues. Accordingly, it can be predicted that the Built-up area to Green space ratio would further reduce if the same development trend continues in future as well (Table 11).

Table 3.0.2: Green space and built-up area distribution within Nuwara Eliya MC

	2001	2019	2030
Green space area	1267 ha	1070 ha	
Built up area	254 ha	456 ha	
Total green space in MC area (%)	84%	71%	
Total built-up space in MC area (%)	16%	29%	
Built up area (ha) : Green Space area (ha)	1:5	1:2	1: 0.5

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Map 3.0-4: Spatial distribution of NDVI analysis: 2001

Map 3.0-4: Spatial distribution of NDVI analysis: 2019



• Change of hereditary of architectural features of Nuwara Eliya.

Presently being construction of building which is contrasting architectural features of Georgian type and British Victorian type mixed building architectural pattern of unique to NuwaraEliya town.

This is a cause to weaken the image of NuwaraEliya.



Figure 3.0.3: Changing of Architectural Pattern

Captured by – Mr. Nilantha Paranagama , March 2017

• Spreading of Context Incompatible Development

According to the public perception in the local area it has identified several unique buildings which is possible to justify that it represents the original architectural type inherited to Nuwara Eliya. All those buildings have been built during the British period and some have been renovated in the recent past. However, they have been capable to protect these buildings in their original form. For example;

- Grand Hotel
- Post Office Building
- Hill Club
- Hill Station Bungalow

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- Railway Station
- Holy Trinity Church
- Mock Tudor House
- Nuwara Eliya Stores
- Queen's Cottage
- Superintend of Police Office Nuwara Eliya
- Pedro Hotel
- Hotel Glendower
- Princes Nuwara Eliya
- St Xavior's Church

Doersch at el (2015) has identified several key elements in British Architectural structures after studying 03 countries and it has further defined that few changes had been made to these elements on country wise during different eras. Nevertheless, given below have been key detailing elements of the British architecture at all times.

- Roof color and angle
- Railings
- Street lamps
- Patter windows
- Doors
- Windows
- Arcade
- Window balustrades

When features of the buildings nominated by the local community are examined (Figure 77), they verify that unique character of Nuwara Eliya is instilled in the built environment with the noted key elements. However, at present, it is questionable whether Nuwara Eliya still consists more of the real British character since the trend of compact commercial developments in the city core area seems to have neglected almost all the inherited architectural characteristics. Context incompatible scales, building materials, billboards, roof slabs, etc., have already transformed the city core character and construction of boundary walls, establishment of hard landscape instead of natural/soft landscapes have impacted the character of periphery (Figure 2). If this trend continues, Nuwara Eliya city will be another general city in future which can be found anywhere in the country.





Figure 3.0.4: Inherited British architectural buildings at Nuwara Eliya identified by local people





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Figure 3.0.5: Context incompatible development in Nuwara Eliya

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3.3.2. Quality and Quantity Issues on Surface and Drinking Water Sources which create less assurance of Accessibility to Safe Drinking Water and Unpleasant Environment.

Location of environmental sensitive areas at highest levels in forest areas and its related water resource system; As heart of town in Gregory lake, Nanu Oya ale, Thalagala Ela, Water field drive, Barak plan ale, Glain fall Ela, Kande Ela, Bulu Ela are the main water resources in the greater Nuwara Eliya town area. Those water resources can be divided in to two parts.

- 01. Quality Issues of Surface Water
- 02. Qualitative and quantitative issues of drinking water

(a) Quality Issues of Surface Water

The surface water has obtained significant value in creating a beautiful environment in the Nuwara Eliya city. Gregory Lake stands as the prominent surface water source in the area which spreads along 91 ha and there are other surface water sources such as Nanu Oya ela, Thalagala ela, Water-field drive, Barrack Plain ela, Glenfall ela, Knande ela and Bulu ela. The total area covered by surface water is about 57 ha within the planning boundary.

While issues on surface water are analysed, it has been verified that there is a better alignment between stream network and flow direction as shown in the Figure 83. Hence, it is confirmed that there are no geographical barriers on surface water flow. Nevertheless, it seems that due to concentration of higher population density and related discharges have greatly caused surface water pollution within the planning area. As per the Figure 84 the prime two catchments (o1 and 02) shows the highest population density. Gregory Lake, Bulu Ela, Barack Plain and part of Nanu oya Ela located within catchment 01 and 02 are exposed directly to nearby high dense grama niladhari divisions. However, entire MC area and almost all commercial built environment established within these two catchments bear the responsibility of surface water pollution.

On the other hand, discharge of human and domestic waste and chemicals from agricultural lands cause surface water pollution of the area. According to the existing condition, catchment of Gregory Lake is overtaken by intensive vegetable cultivation and high population density.



Figure 3.0.7: Flow direction and streamline network in Nuwara Eliya

Therefore, high amount of urban wastewater and sediments come through runoff (Amarathunga et al., 2010). The fertile sediments which is resulted by soil erosion of vegetable fields carried from the tributaries of the Gregory Lake encourage dramatic aquatic plant growth as a result of nutrification which is considered as a negative circumstance in aquatic environment. According to a water quality assessment carried out by Nuwara Eliya MC for the Lake Gregory with water samples collected from five locations of the Lake denote that some of chemical parameters of surface water has been exceeded its standard level.

According to the outcomes of the assessment noted in the given Table 12 it seems that turbidity, pH value, Chloride (Cl), Alkanlinity (CaCO₃), Free Ammonia (NH₃), Albuminoid Aluminum (Al) and COD levels has been exceeded its standard levels. The studies done by the Department of Irrigation on Lake Gregory, Barrack Plain and Katumana Ela further verified that the contamination of Lake Gregory has continued with showing a grown pattern from 2016 to 2017.

Lake Gregory as a town centered wetland eco system which is enriched with high bio-diversity and natural beauty was a major visitor attraction location. Same time it has been used as a major source for agricultural activities. Nevertheless, the current trend on surface water contamination in the area has been negatively impacted for such uses obtained so far.

Figure 3.0.8: Population density distribution along with flow direction



Table No 3.1 shows the confirmed data taken from the investigation done by the Municipal Council Nuwara Eliya regarding the water quality of the Gregory Lake.



Test	Unit	Method			LOD	LUN.				
			515 614:	Lake	Lake	Lake	Lake	Lake		(K-2)
			2013	Gregory	Gregory	Gregory	Gregory	Gregory	1	1
				Inlet	Mid-Point	near the	mean the	renar the	1	
						School	Bridge	Sluice	1	
Odour	-	CML1		Objec*	Objec*	Objec *	Objec*	Objec*	-	-
# Turbidity	NTU	APHA 213 0 8	2	138	222	94.6	50.4	121	-	20
#pH at 25° C	-	APHA 4500 H1 B	6.5-8.5	7.62	8.21	8.26	8.22	8.32	-	-
# Chioride (as C)	Mg/L	APHA-4500 CI - 8	250	22	22	22	22	22	-	4
P Total Alkanlinity (as CaCO ₂)	Mg/L	APHA 2320 B	200	43	46	47	43	46	-	4
Free Ammonia (as NH ₃)	Mg/L	SLS 614:2013, Appendix	0.06	2.4	2.4	2.0	1.6	2.4	-	•
Albuminoid Ammonia ((as NH ₃)	Mg/L	SLS 614 : 2013 Appendix A	0.15	2.8	1.8	0.80	2.4	2.0	-	•
Nitrare (as NH ₂)	Mg/L	CML/MM/02/02/019/V	50	5.0	5.0	4.8	5.8	4.8	-	•
# Nitrite (as NH ₂)	Mg/L	APHA 4500- NO15	3	0.11	0.09	0.20	0.06	0.04	-	14
#Fluoride (as F)	Mg/L	APHA 4500-F C	1.0	0.37	0.36	0.36	0.50	0.36	-	6
Total Phosphates (as PO ₄)	Mg/L	APHA 4500 - P 8 & C	2.0	1.4	1.5	1.1	1.4	1.5	-	30
Total Dissovled Solids	Mg/L	APHA 2540 C	500	140	101	146	130	151	-	5
# Total Hardness (as CaCo.)	Mg/L	APHA 2340 C	250	45	49	51	45	44	-	4
Sulfate (as SO ₄)	Mg/L	Modified APHA 4500 SO,	250	ND	ND	16	ND	ND	10	•
Calcium (as Ca)	Mg/L	APHA 3500 Ca- D	100	14.5	15.7	18.9	15.1	14.9	-	-
Magnesium (as Mg)	Mg/L	APHA 2340 C & 3500 Ca - D	30	2.0	2.4	3.4	1.8	1.7	-	•
Cyanide (as CN)	Mg/L	CML18	0.05	ND	ND	ND	ND	ND	0.05	-
Sodium (as Na)	Mg/L		200	9	9	8	9	8	-	
Iron (as Fe)	Mg/L	1	0.3	0.75	0.46	0.66	0.80	0.50	-	-
Copper (as Ca)	Mg/L	1	1.0	ND	ND	ND	ND	ND	0.05	
Manganese (as Mrt)	Mg/L	1	0.1	0.06	0.06	0.11	0.11	0.30	-	-
Zinc (as Zn)	Mg/L	1	3.0	0.03	ND	ND	ND	ND	0.02	-
Aluminum (as Al)	Mg/L	1	0.2	0.84	0.65	0.94	0.91	0.53	-	-
Chromium (as Cr)	Mg/L	1	0.05	ND	ND	ND	ND	ND	0.05	-
Nickel (as Ni)	Mg/L	USEPA-200.8	0.02	ND	ND	ND	ND	ND	0.01	-
Arsenic (as As)	Mg/L	1	0.01	ND	ND	ND	ND	ND	0.001	-
Cadmium (as Cd)	Mg/L	1	0.003	ND	ND	ND	ND	ND	0.001	-
Lead (as Pb)	Mg/L	1	0.01	ND	ND	ND	ND	ND	0.01	-
Selenium (as Se)	Mg/L	1	0.01	ND	ND	ND	ND	ND	0.001	-
Mercury (as Hg)	Mg/L	1	0.001	ND	ND	ND	ND	ND	0.001	-
#COD	Mg/L	Modified APHA 5220 D	10	110	130	85	100	305	-	4
Phenolic compounds (as	Mg/L	APHA 5530 5 & D	0.001	ND	ND	ND	ND	ND	0.1	
C_H_OH)										
OIL& Greater	Mg/L	APHA 5520 B	0.2	ND	ND	ND	ND	ND	2	

Greater Nuwara Eliya Development Plan 2022-2032 **Table 3.0.3: Water quality situation of the Gregory Lake**

Source: NEMC

An according to theabove table, it shows the water quality situation in Gregory lake, Katumana Ela, Barrack Plain reservoir water quality situation in the investigation report done by the irrigation department. It was evident that the water contamination developed badly in 2016 and 2017. Especially concentration value of water qualities of the COD, BOD, DO, COLIFERM, PH stranded were high in Lake Gregory in 2017.

Water in the Katumana Lake, out flow of its spills and Barrack plain reservoir were high phosphorus concentration value reported when comparing to 2016 for 2017 values.

According to the research thesis written by ex. Director general Dr. Sarath Amarasiri of agricultural department it says that the farmers in Nuwara Eliya are paying over 8 times cost for fertilizes. It is identified most fertilizers were phosphorus and according to the thesis out of 1600 samples 50% were included phosphorus elements in the fertilizes as well.

According to the irrigation department investigation, the reasons identified to water pollution and it's increases are the fertilizers use for cultivation and mixing pesticides to water.



Drainage water and waste water dispose to drains from the residential, commercial and tourism activities are the other reason to water pollution as well.

(b) **Qualitative and quantitative issues of drinking water**

The central hill, being the peak of country it is considered as the prominent water catchment of the isle. Nevertheless, it seems that Nuwara Eliya has lost its advantage on having safe and clean drinking water due to several factors that cause to contaminate the surface and ground water within region. Numerous of studies has evident this situation which is appears and caught during the field observation and the interviews had with stakeholders. A human development indexes survey conducted by Department of census and statistics (2016) has confirmed this situation by noticing Nuwara Eliya as the top most district of the country which has the least access to safe drinking water (Figure 85.).

Conceiving the drinking water source records produced by DSD resource profile (2015), 15% of drinking water comes from ground and shallow wells whereas 84% of consumers uses pipe borne source and small percentage from community (0.03%) uses packaged water (Figure. 86). However, the UDA development plan (2019) stated that generally 70% of water supply within MC being fulfill by piped line whereas 70% of water supply at PS area fulfill by wells.



Figure 3.0.9: Access to safe drinking water in 2016 by

Source: Household income and expenditure survey 2016, Department of census and statistics



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Diagram 3.0.2: Access to Drinking Water

Source: Nuwara Eliya DSD resource profile (2015)

As whole even majority of community uses piped water it seems that the supply provides by the Nuwara Eliya MC is not meets the standard parameters allocated for safe drinking water. According to an assessment done by Nuwara Eliya MC to assess the coliform bacteria level of piped water has confirmed that majority of the samples (63%) taken from different 19 locations within Nuwara Eliya MC exceeds the standard level of coliform level in drinking water. Further clarification on reasons for this situation done by Nuwara Eliya urban development authority (2019) verified that the outflows of sewage network as the main cause for this. Since the old water distribution line contain with many leaking points, poor management and purification techniques has made the drinking water issue more critical in Nuwara Eliya. Hence such within the community of Nuwara Eliya who are depending on pipe borne water are having a high risk of spreading diseases such as diarrhea. The fact has further confirmed with a research conducted by Ministry of Health by denoting that Nuwara Eliya stands as the 4th trending city in Sri Lanka which is vulnerable for spreading diarrhea.

Conceiving about the quantity of piped water supply, the overall town area which includes 7 no of water distribution zones being facilitates by 13 no of water pumps. Haddon Hill pumping station which is bearing capacity of approximately 3,500 m³ contributes to full fill 75% of total drinking water requirement in Nuwara Eliya MC. During the dry months of the year entire supply network of Nuwara Eliya produces only 3,500 m³ and as a result it is being unable to meet the required volume of water which stands as 5,500 m³. In case the excess requirement of portable water being extract by shallow and ground wells which is considered as scare resource during the dry season.



Ground and shallow wells located within Nuwara Eliya DSD contributes about 15% of total portable water requirement. There are numerous of scientific assessment has been done for to analyze the quality of these well water and has notified that 45% of such drinking water sources are located less than 10 m distance from the vegetable fields which is categorized as vulnerable for contamination (Hengama et al., 2013). Since Nuwara Eliya is rich with agricultural lands, well springs are severely vulnerable for getting contaminated with the fertilizers which are being used for the crops.

When notifying about the chemical composition of ground springs according to Rajakaruna et al. (2005) and Sarathchandra at el., (2017) there were high levels of nitrate (32 ppm) and basic cautions in well-water in crop fields comparatively with the forest areas in Nuwara Eliya. It has evidently proved that rapid increase of applying fertilizer and pesticides along last few decades in Nuwara Eliya has increased the toxic heavy metal concentration in the soil. As per the findings of Amarasiri (2017) the phosphorus (P) concentration of some potato cultivated lands records as 400 parts per million (ppm) whereas uncultivated lands noted the amount as 10 ppm. Further it says that such a dramatic value hardly been reported from any other country. Since, exotic vegetables grows at Nuwara Eliya are highly P demanding (Amarasekara, et al., 2013) farmers used to apply Triple Super Phosphate as the major P source for their vegetable cultivations (Sarathchandra at el., 2017). The high electrical conductivity (EC) recorded in cultivated land is most likely due to the application of fertilizer (Amarasekara et al., 2013) Addition of soil amendments such as Dolomite (CaCO3) has been the reason for higher pH value recorded in agricultural area's shallow water .

	Wč	lier		
Land use representation	EC (dS/m)	pН	Nitrate (ppm)	Phosphorus (ppm)
Forest	29	6.1	2.41	1.17
Mix of natural and agricultural land use in middle catena	151	7	0.75	1.12
Shallow ground water in an agricultural land	0.31	6.4	32.89	1.09
Drain in agricultural land	146	6.8	8.43	1.1
Mixed land use (Agriculture and natural land use in lower catena)	45	7	1.96	1.12

Figure 3.0.10: influence on determining quality of portable water

As per the Figure and given Table could be used to determine the overall cultivation sector's and built up land use's influence on determining quality of portable water. As elaborated water catchment zone 01, 03 and 04 that locates within Nuwara Eliya PS, bears cultivation as prominent land use whereas catchment zone 02 which covers the Nuwara Eliya MC contains built up and other as the prominent land use. Hence such the findings noted above further verified that the water contamination of Nuwara Eliya PS area occurs due to agricultural activities whereas man made urban activities reasons to water contamination within MC area.

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La	Catc	hmen	t	
nd	1	2	3	4
use				
Cul	60	15	93	45%
tiva	%	%	%	
tio				
n				
Bui	7%	5%	3%	2%
lt				
up				
For	23	39	3%	53%
est	%	%		
Oth	10	41	2%	
er	%	%		
			*	
and the second	A	1	- Ale	

Table 3.0.4: Land uses distribution within each catchments

Figure 3.0.12: Land use distribution within water catchments





Though this is a water catchment area, drinking water scarcity in Nuwara Eliya area is a problem. And non-availability of pure drinking water to the public is a main problem as well. Water supply in mainly being done by the Nuwara Eliya municipal council water distribution in 7 zones of municipal council area of that 75% of distribution of drinking water supply (3350 cubic meter) is doing from Haddon hill water pumping tank.



Figure 3.0.13: Diagram No 3.4 Water Distribution Zones

Sources – Nuwara Eliya Municipal Council





In the dry season in Nuwara Eliya area water demand goes up and to 5500 cu.meters andwater supply goes down to 3500 cu.meters. Reduced water supply in water sources, increase the tourism arrival to the town and use the tube well water to the vegetable cultivation, are the reason to high demand of water demand to water supply in the dry season. Water supply will be done 9 tube wells in this season. In the water sample investigation done by the municipal council of NuwaraEliya it is revealed that12 out of 19 locations were included coliform bacteria with high value percentage. (Table No.3.2)

This is an exceeded value to the standard coliform value to be in the water. The reason is to this situation was mixing of toilet drainage water to the drinking water. After 2017 the municipal council has taken a action to recover this situation and temporary they got the required water quality.

	Total clorifom	Total clorifom	
Sample Places within NEMC	Bacteria in 35 .C (100ml)	Bacteria in 44 .C (100ml)	
	Pipe born water- 02 Other 10	0	
Pedro (spring water)	> 38	$\rightarrow 4$	
Toppass (spring water)	> 68	→ 10	
Hevan Seven Hotel (Haddon Hill Rd)	10	No	
Post Box junction, Gamunu Mawatha		→ 8	
Tank near to Pedro Tank	> 52	$\rightarrow 2$	
Technical College	No	No	
Haddon Hill Pump House (Outside Pipe)	No	No	
Haddon hill Stock Tank		No	
Near to Kadireshan Kovil- Nanuoya Rd	> 12	No	
Tap- Gregory Lake Stage III	4	No	
Mr. A.L.A.P. Udayakantha, Kalukele	No	No	
Himaluwa Hotel, Magastota	> 38	→ 8	
Vegetable Estate- Sandathenna junction	→ 18	-> 2	
"Sunil" Shop- Wijithapura junction	10	No	
Magastota	No	No	
Badulla Rd		→ 14	
Vajiraknana Vidyalaya, Ledy Machlam Rd, N'Eliya		→ 240	
Kandy Rd, Bambarakele		→ 54	
Nuwara Eliya MC Office			

 Table 3.0.5:-Quality of Drinking Water

Sources – Nuwara Eliya Municipal council

Similarly sample survey done by the agriculture post graduate students of University of Peradeniya named Mr.H.P.Henegama, Mr.N.D.K.Dayawansha, Salinda silva in regards to 50 housing units situation the area of municipal council and Pradeshiya Sabha area limit, It reveal that 55% out of 50 housing units are located their drinking water wells near the vegetable cultivation lands.

Also it reveals that the 70% of families within municipal council area limit are supplied pipe line water connections while 70% of families living within Pradeshiya Sabha limits are supplied drinking water by their wells.

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Meanwhile that the 4thlevel of standard got in the trend to disperse diarrhea disease in NuwaraEliya area. The human development report of 2012, it says that the lowest protecting drinking water in Sri Lanka is the area ofNuwaraEliya region.

3.3.4. Low facility houses, slum and shanties

Table 0.6: Type of the houses

Out of 20% of housing stock of the Nuwara Eliya town limit and its outer area were attached houses, lime houses and slum and shanties. In Table No 3.4 it shows that the data regarding the number of living families and housing situation within the 21 Grama Niladari divisions based to prepare the greater NuwaraEliya development plan. In addition to that there are 3331 population were in 638 families in 590 slums within the municipal council limit of NuwaraEliya there is 7.5% of population of NuwaraEliya Municipal Council limit. When considering the poverty level of the area, it was reported low standard houses and high poverty level in the Grama Niladari divisions of Bambarakele, Bangalahatha, Hawa Eliya east, Kalapura, Ruwaneliya, Seethaeliya and Shanthipura this shows in Table No 3.5 and No 3.5 pictures. This is hindrance to the economic development and NuwaraEliya town image.

	No of families	No of houses	Scurrility of houses	01 floor houses	2 floor houses	Houses with more than 2 floors	Attached houses	Flats	Twin houses	Lime houses	shanties
Total	11008	10784	224	6861	791	71	483	19	231	2184	144
As a percent the exit total h	-		2.1	63.6	7.3	0.7	4.5	0.2	2.1	20.3	1.3

 Table 3.0.7: Type of the houses

Sources Δ Census and Statistic Department

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Out of 21% of total housing unit were the low income houses within Greater Nuwara Eliya development planning area were low income houses and they were slums, Shanties, lime houses and state houses 5300 population are living these houses. 630 low income families living within municipal council limits due to this reason poverty level is high in this area

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				Land	
Location	Population	Families	Houses	extent	Land ownership
Race Course					
Ground Road	240	56	48	1 Acre	Sports Ministry
Unique View	222	52	33	1.5 Acres	Private
James Street	65	15	14	40 Perches	Golf club
Municipal council					
lands	826	225	120	3 Acres	Municipal council
Bambarakale					
Estate	1676	207	306	4 Acres	L. R. C
Bambarakale					
P.W.D. lands	166	52	42	-	N.H.D.A
Samagi Uyana					Divisional
(Under bank)	49	12	12	-	Secretariat
Upper Lake Road	72	19	15	-	Private
Total	3316	638	590	-	-

 Table 3.0.8: Table No 3.5 – Low income houses with municipal council limit

Sources Δ Nuwara Eliya Municipal council.

Figure 3.0.14: Low Facility Houses



Grama Niladari	Housing	Housing	Poverty
Division	Quality Index	Situation	Level
Bambarakale	-0.71	Low	High
Bangalahatha	-0.85	Low	High
Buluale	-0.23	Normal	Normal
HawaEliya - East	-0.51	Low	High
HawaEliya- North	-0.24	Normal	Normal
HawaEliya - West	0.24	High	Low
Kalapura	-0.56	Low	High
Kalukale	0.45	Very high	Very lllow
Kalegala	0.29	High	Low
Magasthota	-0.38	Normal	Normal
Meepilimana	0.17	High	Low
Mihindupura	0.23	High	Low
NuwaraEliya-Central	0.16	High	Low
NuwaraEliya-West	0.13	High	Low
NuwaraEliya	0.11	High	Low
RuwanEliya	-0.75	Low	High
Sandathanne	-0.17	Normal	Normal
SeethaEliya	-0.72	Low	High
Shanthipura	-1.04	Low	High
Windyconer	-0.39		

Table 3.0.9: Poverty level

Sources – Census and Statistic Department





Map 3.0-5: Poverty level



It has been recorded that typical tea estate labour population is settled in the mentioned housing units. These dwellers bear the lowest quality of living. Considering their living condition, it seems that they suffer as they are incapable of meeting even the basic needs related to sanitary, safe drinking water and electricity. The Resource Profile 2015 by District Secretariat Division records that 3454 houses in the DSD boundary (Tourism master plan study area) don't have electricity and 6398 houses don't have basic toilets. Even though Nuwara Eliya is famous around the world as a key tea production city in Sri Lanka, the living condition. As a major tourist attraction city in the island, the noted conditions negatively impact the tourism industry in the area. Distribution of such underserved settlements harm the reputation of the area and cause negative impact on social stratifications as well.

3.3.5. Road conditions are not up to standards.

Six criteria were used to study quality of the condition of roads within the municipal council limits and adjoining area of NuwaraEliya town. According to that map no.3.5 shows the quality of the roads. Within the NuwaraEliya town area the road condition were in a certain standard of quality though out town limit adjoining area the road quality standard were low condition. (Map No.3.5)This less physical development is impacted to economic development of the area.

Criteria	Weightage
Adequate Road Width	6
Pedestrian Road Ways	5
Surface Condition	4
Storm water Drains	3
Pedestrians payments	2
Circular Road end	1

Table 3.0.10: Road Condition





Map 3.0-6: Quality of Roads



3..3.6 Inadequate Infrastructure Facilities Disturbing the Smooth Function of Tourism Activities

NuwaraEliya urban area identified as main tourist attraction town. There is a cool and temperate climate is in NuwaraEliya. Compare to other area ofSriLanka and be suitable environmental sensitive zone are the especially helpful reason for environmental tourism activities. Tourists arrival to Sri Lanka is 2016is about two million and according to the progress report of tourist board in 2016, it says that 6% of tourists are touring central upcountry mountain area of the country.

Most of the foreign tourist arrived to SriLanka for environmental activities. It was in 2015 in 66% while 23% in 2016. However there was no figure of calculation of foreign and local tourist to NuwaraEliya town. Though there was no figure regarding to the tourist arrivals, it can be calculated by using the data to tourist attractive locations in the NuwaraEliya.

	2012		2013	2014	2015	2016					
Foreign Tourists											
Haggala	12489		14713	18071	24188	29192					
Horton plain	39123		34065	69979	87962	131670					
Galways	82		29	84	49	198					
Gregory park						61622					
Victoria park						47294					
Sandathanne						8673					
Local tourists				-							
Haggala	587749		511879	578825	742133	956815					
Horton plain	184744		46511	198374	228858	319999					
Galways	1521		1084	1669	2047	3345					
Gregory park						721495					
Victoria park						643725					

Table 3.0.11: Tourist Arrivals

Source :NEMC

A constant of the second

According to that there is most tourist attractive location were the Haggala Park, Horton plain, Gregory Park, Victoria park and Galway Park tourist arrivals shows in the Table.

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According to that average local tourist arrival in 2016 in 950,000 and foreign tourist 135,000 but facilities for existing and future development are not adequate is a problem.

Quantity of total rooms in almost 1800 and average staying nights are two nights, therefore study done for the tourist field to identified the facilities available and specially, physical and social infrastructure facilities for tourists can be divided in to 4 parts.

Accordingly urban development authority has done a problem identification survey in 2017 regards to tourism facilities. Then it reveals the fact that the tourism facilities were in minimizes level in NuwaraEliya.As tourists themselves shows the existing facilities to tourism, while it shows the scarcity of their social and physical infrastructure facilities to tourism hindrance to the development of tourism.

Physical resources	Cultural events	Services	Lows and
			administrations
Hotel, restaurants,	Cultural activities,	Banks, Insurance,	Lows,
Accommodation,	Ceremonies,	Guides, Tourist Agents	Administrativereg
Transport, Media	Historical features		ulations
facilities, water,	and statures, Music,		immigration and
Electricity, parks, Health	Rhythmic dances		migration lows
facilities			

 Table 3.0.12: Infrastructure in Tourism Sector

Infrastructure in tourism sector comprise an extensive theme to be discussed. Numerous of scholars has produced their findings in relation with real ground practices of tourism infrastructure provisions in many categorical ways. In the sector of tourism, 'destinations' are the fundamental. Destinations are the places where basically attract visitors, where the delivery of tourism takes place, where the business are based and tourism product is consumed (Stanford, 2017). Accordingly available infrastructure facilities for a defined destination to improve the living conditions of both visitors and local residents are reflect the ability of smooth function of tourism.

Thus, it has become crucial for the destinations to ensure that the infrastructure provided to facilitate visitors is of high standard.

Among many of different categorization of tourism infrastructure Haneef's (2017) study on tourism infrastructure has identified four attributes namely, Attractions, Accommodation, Accessibility and Amenities as vital sectors to be developed in an effective destination.

If a destination fails to adequately provide high standards of these attributes, it may lose its visitors and long-term reputation.

(a) Quality issues on safe and convenient travel for both pedestrians and motorists

National scale geographical positioning and regional geomorphology constraints has prominently influenced on accessibility to and within Nuwara Eliya. The basic physical structure of Nuwara Eliya defined itself by the mono-centric urban area which facilitate by radially formed road network. Through the chronological expansion, the sprawl development of centric urban area seems to be distribute along the main arterials showing a linear development.

Conceiving about the accessibility to Nuwara Eliya as discussed in above section 3.9.1, it has national scale railway, main highway and domestic sea plane route access as well. The level of connectivity of these three parameters indicates a moderate level in national scale (Figure.72), means the accessibility to Nuwara Eliya in National context may not a burden issue for the movement. Nevertheless, where it investigate the local area context or the accessibility within Nuwara Eliya as the destination, seems that there are numerous of issues relates to road and transport services. Basically, aforesaid city form and road network being incapable of facilitating the huge amount of visitors arrives in the peak of tourism season is the main reason behind this context.

Accordingly, the 'road quality index assessment' done by UDA Nuwara Eliya (2020 - 2030) elaborates the level of quality in local area road network. The criteria considered for the analysis are follows.

- Adequate road width
- Availability of pedestrian ways
- Surface condition
- Availability of storm water drains
- Availability of Pedestrian safeguard
- Road corner splaying

The outcome of the analysis express a higher level of quality within the road network of MC area while some parts of the NEPS shows a lower level of quality. Accordingly, under the process of particular tourism plan preparation it should focus on develop the noted criteria.

Figure 3.0.15: Road condition assessment of Nuwara Eliya tourism facilitation area



(b) Minor facilities at bus terminal and railway station

Nuwara Eliya directly connect with national highway network via Colombo - Badulla (A5) highway. As well as the railway network which connect with Nanu Oya act as the main railway connection to Nuwara Eliya. Since the availability of these networks and related transport services most of local and foreign visitors tend to use public transport to visit Nuwara Eliya. Sometimes it seems that Nuwara Eliya act as a pass through destination of visitors who travels to Ella, Haputale and etc;. Hence such the existing national scale bus terminal and the rail station act as major hubs to facilitate the commuters of Nuwara Eliya. Nevertheless, where it consider the conditions and facilities exist at these places seems that not meets the satisfactory level as much as a national level tourism destination.

• Bus terminal

Nuwara Eliya regional bus terminal which is located at center of the city (lat: 6.971848°, long: 80.767348°) facilitate for both Sri Lanka Transport Board (SLTB) government buses and National Transport Commission's (NTC) private buses as well. The total no of bus parking capacity within the terminal is ____ and there are ____ of functioning routes as below.

Regional direct contact

- Nuwara Eliya Udugama 18/48
- NuwarA Eliya Kalutara/ Colombo 79
- Nuwara Eliya –Galle/Matara/Ambalangoda 31
- Nuwara Eliya Kandy/ Kurunegala 47
- Nuwara Eliya Badulla 311
- Nuwara Eliya Welimada 311/2
- Nuwara Eliya Bandarawela 311/310
- Nuwara Eliya Ampara 77

Regional Passing through

- o Colombo Badulla/ Weilimada 79/1
- Kandy Welimada 47/3
- Kandy Bandarawela 47/1
- Kandy Lunuwatta 47-3/328

Local direct contact

- o Nuwara Eliya High Forest/ Gonapitiya 746/1
- Nuwara Eliya Nanu Oya 715
- o Nuwara Eliya Ragala 743/4
- o Nuwara Eliya Kandapola/ Hatton 715
- o Nuwara Eliya Mandaram Nuwara
- Nuwara Eliya Meepilimana 749

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- Nuwara Eliya Boralanda
- Nuwara Eliya Hanguranketha

Within a regular day there are _____ no of total trips start at Nuwara Eliya and _____ no of trips ends at Nuwara Eliya. Total trips circulates within a day get vary in the tourism season and remarked as total ______ of trips in and out. According to the trips data it is possible to develop an approximate calculation about the no of passengers who use the Nuwara Eliya bus terminal and it's approximately ______ of passengers per a regular day and ______ of passengers per a day in tourism season. Existing bus terminal building which stand as a two storied building with multi-purpose commercial spaces is established is not in a position of facilitate for all of these passengers in a qualitative manner even it located at the heart of a famous tourism destination.

There is only limited space allocated for provide sanitary facilities which is contain with _ no of lavatories and _ wash basins. The unpleasant environment of the place express the low maintenance taken place. Even the communal portable water supply is there, it's not seems to be as a reliable source to drink directly. Furthermore, the capacity and quality of provided sanitary facilities are certainly not meet with the requirement of tourism season.

The facilities provided within bus terminal area for both commuters and visitors are generally not in a satisfactory level. Proper resting places, well maintained waiting areas, information and navigation guides, planned landscape inputs, safety and cleanliness are seems to be lack within the existing bus terminal.

Railway Station

Nanu Oya Rail station which is located 206.9 km away from Colombo along the main line was initially built in 1885. Currently there are regularly scheduled daily and holiday special train trips that starting from Colombo, Kandy, Ella and Badulla functions across Nanu Oya. Average no of trips per day passes Nanu Oya recorded as approximately 17. According to the ticket counts of a regular day there are _____ of average passengers begins their travel from Nanu Oya daily. In tourism season the station gets busiest with the highest amount of foreign visitors arrive and average amount of foreign visitors who begins the journey from Nanu Oya recorded as 500 per day.

Since, the famous up country train tour which leads towards Badulla becomes more fascinating afterward Nanu Oya, it has already acquired the attention of both local and foreign visitors. Hence such within the peak of tourism season it seems lots of foreign visitors gathering and waiting at Nanu Oya station for their trains to visit Ella and Badulla. According to the ticket counts at Nanu Oya rail station defines __% from overall passenger movements includes to visit Ella. Accordingly it make a sense about Nanu Oya station as a transit station to Ella for foreign visitors in their up



country visit. As such even the Nanu Oya station plays a significant role in tourism functioning it seems a lack of quality and quantity of facilities provided within its premises. Accordingly, identified infrastructure issues within station premises are,

- Limited capacity of private vehicle parking not meets the requirement and disturbs to smooth circulation within station premises.
- Limited amenities provided for waiting area not meet the requirement
- Existing rest room not in a position of providing quality and satisfactory services

(C) Minimally available qualitative communal facilities

Qualitative communal facilities is a significant factor to determine the smooth function of a sustainable tourism destination. Because such amenities which includes vehicle parking, way finding displays, information centers, public gathering places, resting areas, sanitary facilities, portable water sources, market, health and security services are accountable to produce a safe and convenient experience to visitors. Accordingly, within planning area it has observed generally a negative condition in relation with quality of noted communal facilities.

• Way finding displays

Apart from the Road development Authority's city and road direction displays, as a whole there is no any unique or systematic way of displaying way findings to attraction places. Since it consider easy access is a must component of a sustainable tourism destination a regular mechanism of providing navigational information is a valued component to be established. According to the current situation of attraction site's way finding displays seems an irregular pattern and most of the sites such as Galway's forest, Lovers leap, Glen fall, Nanu Oya fall, etc; not even guided by navigational signs.

• Information displays

Self-guidance is a new trend developing within global tourism. Hence such, having a regular way of displaying site specific information also a valued component to be established within each sites to express the significant and unique characters. Currently there are limited no of places has this component which has been established by Department of Archeology and Forest department on the sites which is under their authority. Nevertheless, historically and environmentally significant attractions such as Gregory lake, Victoria park, Seetha Amman temple etc; are still requires a proper way to display site specific information.

• Information center

Even authorized and responsible central information centers is a must component in tourism marketing it is still a lacking part of almost all the tourism destination in Sri Lanka. Such establishment in capable with provisioning accurate route guidance, security instructions, price instructions, information on accommodation, site specific info and activities for both local and



foreign visitors. Therefore, having proper information center to Nuwara Eliya would be a considerable tourism promotional component for the future wellbeing of the destination.

• Public gathering places/ resting areas

Though its natural environment in Nuwara Eliya lush with green, cool and fascinating the built environment and its maintenance within city itself not perfectly compatible with its context. As a focal tourism destination, public gathering places and the resting places is especial elements to be maintained. Accordingly, conceiving the existing condition of public gathering and resting areas in Nuwara Eliya, it's true that there is not much places allocated as such. Even with the slight allocation made in urban squares and market premises consist with issues such as lesser maintenance, inadequacy of allocated space, issues related with garbage disposal, not having proper street lighting and furniture, etc.;. Having a pleasant environment is being considering as an advantage for attract more visitors the lack of public gathering and resting areas as a communal facility is an essential for Nuwara Eliya.

• Sanitary facilities

Provisioning of sanitary facility as a communal service is a good practice of urban management. Nuwara Eliya as a city which attract regularly thousands of commuters per day and more on tourism season should maintain a proper way of provisioning sanitary facilities. So far there were one and only public sanitary facility center located at the bus terminal and during the season MC involves to provide mobile service to cater the requirement of higher amount of population attract. Even though the destination is more popular among the foreign visitors it seems that the provided communal sanitary facilities not compatible with their customs. Therefore, the quantitative insufficiency, less service and quality of provided communal sanitary facilities has been captured within the process of tourism plan preparation.

• Attraction Site's Specific Minimal Facilitation

Attractions are the fundamental elements of a tourist destination. Site specific infrastructure is an essential for remark an effective operation of an attraction place. Favorable, pleasant and safe attraction is capable of attract more tourists to certain locations. Conceiving about the site specific infrastructure for 28 no of given attraction sites shown in table it seems that there is predominant absence in dry sanitary facilities allocated for foreign visitors and tourist police service.

Regarding the accessibility of each sites it seems several water falls do not have recorded an easy access. Even it recorded an uneasy access up to St Clair's and Devon can be neglect since the noted water falls are having great visual access from Avissawella – Nuwara Eliya (A4) road. Nevertheless, regarding the access to Glen fall, Nanu Oya fall, Elgin fall and Gerandi ella seems



more difficult with least maintained road network. As a negative impact of less accessibility it has obviously produce the issue of proper vehicle parking near the noted locations.

According to the outcome observational study on site specific infrastructure has detected the general requirement of parking, sanitary facility, information center, navigation / information displays, drinking water and street light in site basis consequence.

	Attraction	Easy access to entrance point	Parking availabilit Y		itary ities wet (for locals)	Informatio n center	Info/ warnning displays	Navigational signs	Tourist police	Avalability of care taker/ management	Safe drinking Water	Street lights
1		Yes		No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
2	Ambewela Farm/ Shopping pram	Yes	Yes_30	No	Yes	Yes	No	Yes	No	Yes	Yes	Yes
3	Greogory Lake	Yes	Yes_350	No	Yes	No	Yes	Yes	No	Yes	Yes	Yes
4	Shanthipura City viewong point	Yes	Yes	No	No	No	No	Yes	No	No	No	Yes
5	Single Tree	Yes	Yes	No	No	No	No	No	No	No	No	No
6	Piduruthalagala	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
7		Yes	Yes	No	No	No	No	No	No	No	No	No
8	Horaton Plains	Yes	Yes	No	yes	Yes	Yes	Yes	No	Yes	Yes	No
9	Galway's forest	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	Yes
10	Queeen Victoria park	Yes	Yes_20	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
11	Bomburu Ella	Yes	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes	No
12	Kande Ella Reserviour	Yes	Yes	No	No	No	No	No	No	No	No	Yes
13	Moon Plains	Yes	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes	No
14	Devon Falls	No	Yes	No	No	No	No	Yes	No	No	No	Yes
15	St Clairs	No	Yes	No	No	No	No	Yes	No	No	No	Yes
16	Pundalu Oya/dunsinane fall	Yes	No	No	No	No	No	No	No	No	No	No
17	kikiliyamana mountain	Yes	Yes	No	No	No	Yes	Yes	No	No	No	No
18	lover's Leap	Yes	No	No	No	No	No	No	No	No	No	No
19	Seetha Amman Temple	Yes	Yes	No	Yes	No	No	Yes	No	Yes	Yes	Yes
20	Sri Bhaktha Hanuman Temple	Yes	Yes	No	Yes	Yes	No	No	No	Yes	Yes	No
21	Glen Fall	No	No	No	No	No	No	No	No	No	No	No
22	Nanu Oya fall	No	No	No	No	No	No	No	No	No	No	No
23	Elgin Fall	No	No	No	No	No	No	No	No	No	No	No
24	Rase corse	Yes	Yes	No	Yes	No	No	Yes	No	Yes	Yes	Yes
25	Golf club	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
26	Ramboda Falls	Yes	No	No	No	No	No	No	No	No	No	Yes
27	Gerandi Ella	No	No	No	No	No	No	No	No	No	No	No
28	Labookele tea state	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Table 3.0.13: Attraction Site's Specific Minimal Facilitation

(c) Existence of limited amount of standardized accommodation /restaurants facilitie

• Accommodation

As denoted in the section 3.4.4, majority of accommodation facilities concentrated within Nuwara Eliya MC and there are approximately 1,800 no of rooms available which varied from star hotels to homestay. According to the statistics report produced by SLTDA 2019 there is only 09 hotel projects that has been granted the approval of SLTDA. Hence, it is obviously note that the amount of overall and standardized accommodation facilities within tourism core area is not in a satisfactory level.

When it consider the amount of current and forecast of tourists arrivals (Table 6), the average local tourists' arrival in 2017 has been approximately 945,000 while the arrival of foreign tourists recorded approximately 144,000. This implies that the existing accommodation is inadequate even

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for the current arrivals as well as the future predicted number of visitors to the city. The recorded number of total rooms (1,800) with an average stay of two nights should be improved to an acceptable level. However, the problem then arises as the existing core area is unable to facilitate further developments on the base of environmental conservation. Thus, the need of expanding the developments to the periphery should be a given concern. For this, developable lands with least environmental sensitivity should be identified within the periphery area.

• Restaurants

Food and beverage is a defined tourism promotional tool. Most of foreign visitors expect to experience the local cuisine during their stays as a part of experience of their whole visit. Hence such the ideology of food tourism has rapidly established in most of tourism destinations in worldwide. Conceiving about this context a proper place which is established for deliver reliable quality of food and beverages within a tidy environment is a must component to adhere with. As per the international cases studied, even the scale being vary from star hotel, boutique hotel, large restaurants to small cafeteria or a street food stall, there is a promising market to function food tourism activities. Nevertheless, it is still requires to have clean and tidy environment, pleasant service and marketing strategies, quality foods and beverages, local recipes, eco-friendly processing mechanism and reasonable price range to accomplish a success in food tourism sector.

Where it examine the current condition of restaurants within Nuwara Eliya planning area, as noted in section 3.4.4, there is only 5 no of SLTDA approved restaurants which is apart from the approved 9 hotels located. The comments raised regarding on this particular is not seems to be much positive. The negative reputation established on majority of restaurants and other shops within area were observed even in the field visit made during the preparation of plan.

As such, it can be identified several prominent issues that impact to tourism sector in Nuwara Eliya. Considering the consequences of these issues there are special project proposals already identified by various governmental and non-governmental institutions. The recently prepared and gazette UDA development plan for greater Nuwara Eliya 2020- 2030 also identified these issues and has proposed multiple proposals to accommodate particular issues in time basis.

Nuwara Eliya as a prominent tourism destination in the country and on the other hand as a city located in central fragile area, it requires a proper attention where it having physical planning interventions. As a major tourism destination it is anticipated 3.2 Million of annual tourists arrival in year 2030 including both local and foreign categories. Except the visitors the anticipated residential population will be approximately 47,000 in year 2030. Henceforth where it prepares the tourism plan for 2030 it should accommodate the facilities for all these crowd and as well as the issues identified within the chapter.



CHAPTER 04- PLANNING FRAME WORK

4.1.Greater Nuwara Eliya 2021 – 2030 Vision

The vision of the plan is most important to the image of Nuwara Eliya town to next 10 years' time. To that it is need to consider the above discussed details and the unique and endemic environmental and culturally valued built structures and the potentials available in the town. Also should be considered the residence populations, community populations, tourist (local, foreign),venders, serviceproviders, public and privet institutes and staff as stake holders.

"The Paradise of Misty Hill"

4.2.Vision statement

Misty hills-as Nuwara Eliya town located at the high altitude location is the island it's natural climatic and weather condition is with "Misty with Hills" prioritizing the sustainable development goals through

Paradise–protecting the endemic and hereditary environment of the Nuwara Eliya, approach the proper living area and touring area for people

4.3. Goals

1) To rebrand the unique character of Nuwara Eliya.

2) To ensure that the natural assets and sensitive areas of Nuwara Eliya remain fully protected and the city is disaster resilient.

3) To enable Sustainable people centric vibrant economic development within the area.



4.4.Objectives

Goal 1: To ensure that the natural assets and sensitive areas of Nuwara Eliya remain fully protected and the city is disaster resilient.

- 1. To Bring the surface water quality of Lake Gregory, Nanu oya and other streams, up to permissible level which is PH-6.5-8.5/Turbidity 08ntu/BoD -<smg/1/COD 10MG/1 , Fe 0.3mg /1
- 2. To make the total extent of 5 hectare of reservations of waterfalls and water bodies free of encroachment.
- 3. To preserve the 1782 Ha of existing forest reservation and maintain 34% of forest cover.
- 4. To ensure good agriculture practice for 500 ha of agriculture land which are the catchments of Lake Gregory and Barrack Plain Lake 2025.

Goal 2: To rebrand the unique character of Nuwara Eliya.

- 1. To conserve archaeologically significant buildings (protected monuments) bearing British architectural characteristics located within the area by 2025.
- 2. To brand Nuwara Eliya as the best flower destination with hereditary, endemic features at the entering points of the Black Pool, Top Pass and Katumana road.
- 3. To maintain the international tourist arrival growth rate in Nuwara Eliya as 30% and to increase local tourist arrival growth rate by 5% by 2030
- 4. To ensure that 12% of total tourists arriving in Sri Lanka visit Nuwara Eliya.
- 5. To remedy the visual disturbances blocking the natural scenic beauty of the Nuwara Eliya city centre specially, Piduruthalagala, Unique View, Glenfall, Galway"s, Lovers Leap and tea estates, by 2025 and to conserve the natural scenic beauty within the planning area through strict enforcement of regulations.
- 6. To have more than 200 acres of land dedicated for sports activities, recreational and adventurous activities by 2025.



- 7. To brand Nuwara Eliya as the tourism destination which offers the best upcountry vegetable and fruits experience especially in Katumana, Sandathenna, Meepilimana, Mihindupura and Bulu Ela.
- 8. To promote cultural and entertainment activities targeting foreign tourists in the quarters of January March, May-July and September-November and targeting local tourists in the months of April, August and December.

Goal 3: To enable Sustainable people centric vibrant economic development within the area.

- 1. To Ensure 100% pure drinking water supply to full fill the estimate demand of. 9,500cu m. per day for 59,500 of resident population and 77,000 no. of commuters.
- 2. To introduce Green transport modes within the city limits by 2030.
- 3. To reduce substandard houses within Nuwara Eliya planning area to fall below 10% by 2030.
- 4. To increase homestay tourism operators by 20% in 2025
- 5. To have all the tourism related facilities be in compliance with the standards of SLTDA and relevant international standards by 2032.
- 6. To maintain the excisting percentage of 17% of agricultural land in future as well.
- 7. To bring 50 hectares of underutilized state lands to optimum use by 2032.



CHAPTER 05- 'SWOT ANALYSIS'

05. SWOT Analysis

To achieve the above goals the strength, weakness, Opportunity and thread (SWOT) Analysis were considered as follows.



Strengths S W Weaknesses

 Excisting water sources system (Nanuoya ale, Waterfield drive, Gregory lake, Barreck plain, Glenfall, Loversleap) Inpurity water sources. Inpurity Drinking water. Excess uses of chemicals and fertilizers to vege cultivation. Reducing forest areas and enchrochments of re Reducing forest areas (Galways, Piduruthalagala, Haggala) 							
1.Government policies - 5.1.To ensure that the natural assets and sensitive areas of Nuwara Eliya remain fully protected and the city is disaster resilient.							
 * National physical plan. * Tourism protection plan of srilanka. 2. High demand to non-chemical used vegetables. 3. Proposed new waste water drainage project. 4. Sustainable development index (SDG - 2030) 							
Oppotunities O T Threats							

Child a shire in the second de states in the second de states and the and the second de states and the second de

5thÀ. To ensure that the natural assets and sensitive areas of Nuwara Eliya remain fully protected and the city is disaster resilient.

5.1.1 Strengths

a constant for the

01. Existing water sources system.(Nanuoya, Waterfield drive, Greogory lake, Barrack plain, Glenfall, Loversleap)



Map 5.0-1: Water Source System

Figure 5.0.1: Existing water sources system





Photography–Mr. Nilantha Paranagama-2017 March

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The greater Nuwara Eliya Plan area has continual water resource withinentire year as a sensitive environment system. The area has significant rainfall within 200 days of a year and It is reason to have balance environment system.

Out of the total land area of greater nuwaraeliya development planning area that's 58 hectares covered by the water surface is 1.08%.Main water soucersare Most attractive place in the Gregory lake is covered 90 hectare area.It was built on Sir Williom Gregory the governer of Sri Lanka under British ruling period(1872-1877).The maximum depth is 3m and its feed by 20 no of streams and channels which length of 17.75km.Main Water source is Nanu Oya stream and it about 8km distance. Another water resource is a bareck plain and it is comprise about 40 hac and it is feed by the 7 streams having 3.21 km distance.Also Ktumana lack and Magasthota pond contribute to manage the water system of the area.These water sources are help to full fill the second goal of "Preserve the natural environment and improve the water quality"

Drinking water soucers -9 Spring water sources and 9 tube wells were supply as drinking water to the town.



Figure 5.0.2: Numara Eliya Water Distribution System

Sources – Nuwara Eliya Municipal Council



02. High elevated mountain range

VALUE

There are mountains which more than 2000m elevated in the planning area and therefore its most important due to bring uniqueness with environment features and forest cover for the Greater Nuwara Eliya area. Specially,Piduruthalagala, Single Tree, Kalapura, Shanthipura, Kikiliyamanna, Magastota and Bambarakele mountains situate within the area and also the scenic beauty of those highlighted with viewing fully Piduruthalagala mountain range to the town. Height of the Piduruthalagala mountain is 2524m, Kikiliyamana -2037m and Haggala is 2169m from MSL.Also the lowest level of the area is 1890m and mediumheight of the area is 1950m from MSL.



Map 5.0-2: Geographical Locations

1400 - 1999	A Cast	
2000 - 2215		
Area above 2000m Height		
Greater Nuwara Eliya Area	Urban Developerant Authonity Nuwara Eliya May 2018	



Greater Nuwara Eliya Development Plan 2022-2032 Map 5.0-3: Mountain Ranges



03. Salubrious Climatic Condition

Having more tourism attraction to Nuwara Eliya is depend due to the factors like cool climatic condition, high rainfall pattern within most part of the year and evergreen environmental pattern. Lowest temperature of Sri Lanka records from Nuwara Eliya and when considering the last 10 years, the average temperature is 20 ' C. Also, lowest temperature records as 4 ' C.

Average annual rainfall is 180 inches and lowest annual rainfall is not fall than 140 inches



Graph 5.0.1: - Annual Temperature and Rainfall

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	Average Annual	Average Annual	Average Annual	
Year	Maximum Temperature	Rainfall	Minimum Temperature	
2007	20.0	139.6	12.32	
2007	20.0		12.32	
2008	20.2	132.2	12.24	
2009	20.3	136.7	11.51	
2010	20.4	181.9	12.60	
2011	20.1	141.6	12.08	
2012	20.5	147.6	11.76	
2013	19.9	179.8	12.08	
2014	20.2	154.8	12.32	
2015	20.5	168.4	12.30	
2016	20.6	94.8	12.39	

 Table 5.0.1: Annual temperature and Rainfall

04. Existing Forest Coverage

There is 1782 Ha of forest cover can be identified with in the selected Greater Nuwara Eliya area and it's 34.8% from the total land uses. It can be recognized as most important factor to achieve the goal of 'Preserve the natural environment and improve the water quality'. The forest consists with indigenous animals and plants especially within Single Tree, Piduruthalagala, Haggala, Barrack Plain and surroundings.



Source: Department of Meteorology, Sri Lanka



Map 5.0-4: Forest Coverage

5.1.2. Weaknesses 01. Decreased the quality of drinking water

This is the main weakness which affected to achieve the goal of 'preserve the environment and improve the water quality '. Specially, Gregory Lake and Nanu Oya stream, Barrack Plain stream and its surrounding streams are polluting day by day. The water quality testing reports of year 2016 and 2017, shown that, the water quality was very low below to the standard levels of the Gregory Lake, Katumanna Lake, and Barrack Plain especially in Turbidity, BoD, Fe, CoD, and DO levels. The situation emerged due to collected sewage, chemicals and fertilizer which use for the agriculture lands to the water bodies of the area. Especially the Gregory Lake pollution happened due to polluting the sub streams of the Lake. The above mentioned circumstances area directly affect to our goals achievements.




Figure 5.0.3: Water quality Reports – 2017

Source: Department of Irrigation

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Test	Ont	Method				Results			1.0.0	E.U %
			SLS 614:	Lake	Lake	Lake	Lake	Lake		(K=2)
			2013	Gregory	Gregory	Gregory	Gregory	Gregory		
				Inlet	Mid-Point	School	near the Bridge	near the Stuice		
Odour		CML1		Objec •	Objec •	Objec •	Objec •	Objec •		
# Turbidity	NTU	APHA 213 0 B	2	118	222	94.6	50.4	121		20
# pH at 25° C		APHA 4500 - H* B	6.5-8.5	7.62	8.21	8.26	8.22	8.32		
# Chioride (as CI)	Mg/L	APHA 4500 CI - B	250	22	22	22	22	22		4
# Total Alkaniinity (as CaCO ₃)	Mg/L	APHA 2320 B	200	43	46	47	43	46		4
Free Ammonia (as NH ₃)	Mg/L	SLS 614 : 2013, Appendix A	0.06	2.4	2.4	2.0	1.6	2.4		
Albuminoid Ammonia ((as NH ₃)	Mg/L	SLS 614:2013 Appendix A	0.15	2.8	1.8	0.80	2.4	2.0		
Nitrare (as NH ₃)	Mg/L	CML/MM/02/02/019/V 1.2	50	5.0	5.0	4,8	5.3	8,		
# Nitrite (as NH2)	Mg/L	APHA 4500- NO ₂ B	3	0.11	60.0	0.20	0.06	0.04		14
#Fluoride (as F)	Mg/L	APHA 4500-F C	1.0	0.37	0.36	0.36	0.50	0.36		6
# Total Phosphates (as PO ₄)	Mg/L	APHA 4500 - P B & C	2.0	1.4	1.5	1.1	1.4	1.3		10
# Total Dissovled Solids	Mg/L	APHA 2540 C	500	140	101	146	130	131		s
# Total Hardness (as CaCo ₃)	Mg/L	APHA 2340 C	250	45	49	51	45	44		4
Sulfate (as SO4)	Mg/L	Modified APHA 4500 SO4 ² E	250	QN	Q	16	QN	QN	10	
Calcium (as Ca)	Mg/L	APHA 3500 Ca- D	100	14.S	15.7	18.9	15.1	14.9		
Magnesium (as Mg)	Mg/L	APHA 2340 C & 3500 Ca - D	30	2.0	2.4	3.4	1.8	1.7		
Cyanide (as CN)	Mg/L	CML18	0.05	QN	QN	QN	QN	QN	0.05	
Sodium (as Na)	Mg/L		200	6	6	8	6	8		
Iron (as Fe)	Mg/L		0.3	0.75	0.46	0.66	0.80	0.50		
Copper (as Cu)	Mg/L		1.0	QN	Q	QN	QN	QN	0.05	
Manganese (as Mn)	Mg/L		0.1	0.08	0.08	0.11	0.11	0.10		
Zinc (as Zn)	Mg/L		3.0	0.03	QN	QN	QN	QN	0.02	
Aluminum (as AI)	Mg/L		0.2	0.84	0.65	0.94	0.91	0.53		
Chromium (as Cr)	Mg/L		0.05	QN	QN	QN	QN	QN	0.05	
Nickel (as Ni)	Mg/L	USEPA -200.8	0.02	QN	QN	QN	QN	QN	0.01	
Arsenic (as As)	Mg/L		0.01	ND	QN	QN	ND	QN	0.001	
Cadmium (as Cd)	Mg/L		0.003	QN	Q	QN	QN	QN	0.001	
Lead (as Pb)	Mg/L		0.01	QN	QN	QN	QN	QN	0.01	
Selenium (as Se)	Mg/L		0.01	QN	QN	QN	QN	QN	0.001	
Mercury (as Hg)	Mg/L		0.001	QN	QN	QN	QN	QN	0.001	
# COD	Mg/L	Modified APHA 5220 D	10	110	110	85	100	105		4
Phenolic compounds (as C ₆ H ₅ OH)	Mg/L	APHA 5530 B & D	0.001	QN	Q	QN	QN	QN	0.1	
Oil & Grease	Mg/L	APHA 5520 B	0.2	QN	Q	QN	QN	QN	2	

Table 5.0.2: Water Quality Report- Lake Gregory

Greater Nuwara Eliya Development Plan 2022-2032

Source: Central Environmental Authority



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Greater Nuwara Eliya Development Plan 2022-2032 **Table 5.0.3: Drinking Water Quality**

Sample Places within NEMC	Total clorifom Bacteria in 35 .C (100ml)	Total clorifom Bacteria in 44 .C (100ml)
	Pipe born water- 02 Other 10	0
Pedro (spring water)	> 38	- 4
Toppass (spring water)	> 68	> 10
Hevan Seven Hotel (Haddon Hill Rd)	10	No
Post Box junction, Gamunu Mawatha		
Tank near to Pedro Tank		→ 2
Technical College	No	No
Haddon Hill Pump House (Outside Pipe)	No	No
Haddon hill Stock Tank		No
Near to Kadireshan Kovil- Nanuoya Rd		No
Tap- Gregory Lake Stage III	4	No
Mr. A.L.A.P. Udayakantha, Kalukele	No	No
Himaluwa Hotel, Magastota		
Vegetable Estate- Sandathenna junction		$\rightarrow 2$
"Sunil" Shop- Wijithapura junction	10	No
Magastota	No	No
Badulla Rd		-> 14
Vajiraknana Vidyalaya, Ledy Machlam Rd, N'Eliya		> 240
Kandy Rd, Bambarakele		> 54
Nuwara Eliya MC Office	> 710	

Source: Municipal Council, Nuwara Eliya

02. Decreased quantity of drinking water

There are 13 pumping stations within the city to get drinking water purpose. Although the daily water demand is increased up to 5500 Cubic Meter, but decreased the water capacity to 3500 Cubic Meter in dry season. Therefore, tube wells use to supplying shortage of water demand due to the decrement of water capacity of the natural water resources. This issue is mainly disturbs to the tourism industry of the area.

03. Decreased the forest coverage and encroachment of reservations

When considering about the sensitive environment of Nuwara Eliya is mainly focuses about natural forest coverage and mountain ranges. But the percentage of forest cover has been decreased gradually, 40% of forests cover in 2010 and it was dropped as 34% in 2017. Therefore, it became a main negative factor for changes of uniqueness of Nuwara Eliya





Greater Nuwara Eliya Development Plan 2022-2032 Map 5.0-6: Land Use Pattern 2010

Map 5.0-6: Land Use Pattern 2017



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5.1.3. Opportunities 01.Government Policies

- National Physicle plan
- Sri Lanka Tourism Development Plan

Nuwara Eliya and Central hilly area is in the environmental sensitive area according to the National Physical Plan which prepared by National physical Planning Department. Other than that, the Tourism Development master Plan of Sri Lanka is focuses of main strategies to develop the tourism industry of the area. According to that, the government policies are helps to achieve our goals of the plan.

2. Increased demand for the organic products.

Consideration of the demand for the organic agriculture products is increasing at present and therefore it is best opportunity to achieve the goal of preserve the natural environment and improve the water quality. Through that, can be decreased chemical fertilizers usage of the area.

3. Proposed new sewage treatment plant

Municipal Council of Nuwara Eliya has been proposed to newly construct sewage treatment plant with JICA funding. It's better support to have clean environment.

4. Sustainable Development Goals 2030 (SDG)

5.1.4. Threats

01. Advertisements of the chemicals and fertilizers for agriculture of the private companies.

The main factor which is affected to the above identified issue of pollution of water bodies and decreased the water quality is high usage of chemicals and fertilizers for the agricultural purposes. This happens due to unawareness about fertilizer usage and high publication of the chemicals and fertilizers by multinational companies. Therefore many farmers are trying to use high dose of it.



Strengths S W Weaknesses

 Existing water body system (Nanu Oya, Water Field Drive, Lake Gregory, Barrack Plain, Glainfall, Lover's Leap) High elevated mountain range (Piduruthalagala, Single Tree, Kikkiliyamana, Lover's Leap) Salubrious climatic condition (Rainfall, Humidity, Temperature) Existing forest cover (Galways, Piduruthalagala, haggala) Tourist's attraction places Existing buildings with British colonial architectural features Upcountry cultivation Tea estates 	 Pollution of water sources Pollution of drinking water Decreased forest cover and encroachment of reservations Decreased the construction of buildings with British architectural features Disturbs to the viewing points of the area due to new constructions Distribution of slum and shanties within the town Agricultural lands use for constructions
9. Unique flowers and horticulture 5.2 To rebrand the unique o	character of Nuwara Eliya.
International high demand for the tourism to the sensitive environmental areas	Climate changes and weather condition changes
Opportunities O	Г Threats

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5.2. To rebrand the unique character of Nuwara Eliya.

5.2.1. Strengths

1. Existing water body Network

The existing water bodies like Nanu Oya stream, Water field drive, Lake Gregory, Barrack Plain, Glainfalll, Lover's Leap and other streams of the area are most valuable asset to achieve the goal of imaging unique context of Nuwara Eliya. Nearly about2% from total land area of Nuwara Eliya is cover by water and specially those feature such as water falls, streams, lake are support to highlight of uniqueness of Nuwara Eliya.

2. High elevated mountain ranges

The mountain ranges, elevated above 2000m which situate around the area are create scenic view for Nuwara Eliya. Piduruthalagala, Kikkiliyamanna, Haggala mountains get highest attraction in this point. Tea and natural forests are top of the mountains and therefore its helps to enhance the natural beauty of the area.

3. Salubrious Climatic condition

Many tourists attract to the Nuwara Eliya due to the unique climatic condition which has average temperature of 20 0 C and high humidity. Also no other city within the South Asian which can comparable with Nuwara Eliya climate. Therefore many visitors attract to the area and it is most significant fact that supports to realize the goal.

4. Existing Forest Cover

Forest coverage is the most special feature when considering of uniqueness of Nuwara Eliya. According to that, the forests of Galways, Piduruthalagala, Haggala is get high attraction with green. Nearly 34 % of area from the total land is covered by forest and it provides best support to lead the goal.

5. Existing buildings with British colonial architectural features.

The buildings which built in the colonial period with Victorian, Georgian and Bristish architectural features are the most significant that shown the identity of Nuwara Eliya. There are about 129 number of buildings can be identified within the area. In addition, those are given support to attract more tourists.



Figure 5.0.6: Post Office



Post Office: This is one of the oldest building in the area and the Archiological Department mentioned as listed building



Figure 5.0.7: Queen Cottage

Figure 5.0.8: Presidential Bungalow



Figure 5.0.9 :St Xavier's Church



Greater Nuwara Eliya Development Plan 2022-2032 Figure 5.0.5: Grand Hotel



Grand Hotel: The original building, a single story bungalow, called 'Barnes Hall', was constructed as the holiday residence of Sir Edward Barnes, the fifth Governor of Ceylon, It has unique identical architectural features in Nuwara Eliya

The Hill Club is a beautiful property surrounded by Nuwara Eliya's lush greenery.

Built as an English country house, during the late 19th century by the British Colonial administration of the island, for the use of the Governor of Ceylon Since independence in 1948, the house became the official vacationing residence of the Governor General of Ceylon and since 1972 the President after Sri Lanka became a republic

Initiated in 1838 the St Xavier's Church was built to its current structure in a span of 10 years. The towering walls of the church are light brown in color following the same pattern of colonial houses.





6. Tourist's attraction Places

Unique characters of Nuwara Eliya are shown as main tourist destination and therefore many of attraction places locate sorrowing to there.

This is good potential to achieve the goals. Among them, Lake Gregory ,, Golf ground, Galways Park, Victoria Park, Horton Plains, Moon Plains, Seethaeliya Kovil, Ambewela Farm, Labukele Tea Factory, Kudaoya, Boralanda Tea Factory and tea estates are get major tourist's attraction places .Other than that, Lover's Leap water fall, colonial architectural buildings, flower farms are additional attraction places.

The following table shows the tourist's arrivals of different places of the area

	2012	2012	2014	2015	2016
	2012	2013	2014	2015	2016
Fore	eign Tourists				
Haggala	12489	14713	18071	24188	29192
Horton Plains	39123	34065	69979	87962	131670
Galways	82	29	84	49	198
Lake Gregory					61622
Park					01022
Victoria Park					47294
Mon Plains					8673
Loca	al tourists				-
Haggala	587749	511879	578825	742133	956815
Horton Plains	184744	46511	198374	228858	319999
Galways	1521	1084	1669	2047	3345
Gregory lake					721495
Park					/21495
Victoria Park					643725

 Table 5.0.4: Tourist's arrival details

Source: Tourism Development Authority/ Nuwara Eliya MC

According to that due to tourist attraction for the Nuwara Eliya annually about 01 million local tourist and 130000 of foreign tourist area recorded in 2016. Therefore tourist sector mainly contributed to increase the Economy of Nuwara Eliya area. Annually 12000 million rupees get from tourist and its related field to the area. 180 no of Tourist hotels and Guest Houses area located in this area with about 1600 numbers of Rooms. According to the 2012 census report, 20% of direct employees are engage in tourist field, Therefore this tourist attraction will help to achieve the goal.

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Figure 5.10: Tourists' Attraction Places



Captured By: Nilantha Paranagama March, 2017

Figure 5.11: Tourists' Attraction Places



Captured By: Nilantha Paranagama March, 2017

7. Upcountry cultivation

There are 897 ha of extent cultivation lands can be identified within Greater Nuwara Eliya planning area. The daily average production of Nuwara Eliya dedicated economic center is 150 tons and average annual income is Rs. Mn 5250. This is 23% of income of the upcountry vegetables.





Figure 5.12: Upcountry cultivation

07.Tea estate

Total High Grown Tea in Sri Lanka is 41137 Ha and production is - 64 Mn/Kg .Mean while the NuwaravEliya Area provided 1.83 Mn/Kg and its is 2.8% of Sri Lanka total production. Therefore, these tea production give Rs. 836 million income for the Area. It is 0.7% from the Sri Lanka tea income

08. Indigenous flowers and horticulture

Types of flowers- Gebara, Deasy, Babandesiya, Kaneshan, Krishanthimum, Asthemeriya, Lili, Rose, Hydringia

Horticulture areas- Mipilimanna, Wajirapura, Lover's Leap, Shanthipura, kande Ela

Nearly around 270 farmers of horticulture are registered of the Flower association of the area.

About Rs. 10Mn of income can be earned through the cultivation

This is having high demand for tourism as well as to economic improvements and there are flower exhibitions within the seasonal periods.





Greater Nuwara Eliya Development Plan 2022-2032 Figure 5.0.10: Flowers

5.2.2. Weakness

1. Pollution of water source

The unique character of having clean water body network of Nuwara Eliya is lose due to the pollution of drinking and surface water sources which identified according to the above mentioned paragraph 5.12. It causes to damage the environment system as well as bio diversity too. Therefore it has been negatively influenced to achieve the goals.

2.Decreased forest coverage and reservation encroachment

The green environment and forest cover is most important feature of Nuwara Eliya. About 34% of forest cover helps to have uniqueness, but unfortunately this is decreasing day by day and it was 40% in 2010 and it has decreased up to 34% in 2017. Since, the decrement directly affects to the goals achievements of the plan.

03. Changes of unique architectural features of Nuwara Eliya

The colonial architectural features of the area being loosen and changed at the present moment, due to the improper, unplanned constructions. The most powerful character which help to attract more tourists and with the changes it will cause to disturb to tourism industry development of the area.





Figure 5.11: Changes of unique architectural features of Nuwara Eliya

Captured By:Mr. Nilantha Paranagama March, 2017

04. Disturbs to viewing points of the area due to new constructions

The viewing points and the water falls, mountain ranges has been covered Due to the improper new constructions. It distracts to show natural beauty of the area.



Figure 5.0.11: Disturbs to viewing points due to constructions

Captured Bv: Nilantha Paranagama March 2017



Greater Nuwara Eliya Development Plan 2022-2032 **Figure 5.0.12: Disturbs to viewing points due to constructions**



Captured By: Nilantha Paranagama March 2017

05. Low income housing and slums

There are about 21% of housing of Nuwara Eliya MC and its surrounding characterize as joint housing and line housings, The housing types of 21 GN Divisions which in the Greater Nuwara Eliya planning area show the following table. Addition to that, there are 3331 of population of 638 families lives in 590 of low income settlements. It's the main disturbance to having better economy and famous as tourism destination.

Figure 5.0.13: Low income housing





Captured By: Mr. Nilantha Paranagama March, 2017

althe bearing

GN Division	No of families	No. of housing	Scarcity of housing	House with ground floor	2 story house	Houses more than 2 stories	Joint houses	flats	Dual houses	Line houses	Slums
Total	11008	10784	224	6861	791	71	483	19	231	2184	144
Percentag existing h			2.1	63.6	7.3	0.7	4.5	0.2	2.1	20.3	1.3

 Table
 5.0.5: Condition of the housing

Source: Department of Statistics

The poverty level of the area is increased with that situation.

Map 5.0-7: Poverty Level





5.2.3. Opportunities

01. High international demand for eco-friendly tourism

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	201
											6
Entertainm	67.4	67.1	73.2	80.0	78.9	80.4	74.4	72.7	67.95	66.6	83.4
ent											
Business	17.8	10.5	8.5	8.6	12.7	8.0	9.0	5.2	1.33	1.3	1.8
Meet	7.6	8.3	8.3	5.2	5.4	8.2	11.7	12.4	27.45	25.5	11.5
relations											
Conference	3.0	1.5	1.3	1.4	1.0	1.7	2.2	2.0	.29	.3	.8
& meetings											
Cultural &	1.7	2.8	2.6	2.0	.8	.3	2.2	4.8	0.01	0.1	0.0
religious											
Health									0.53	3.2	0.6
Sports									0.53	0.7	0.4
Duty									0.11	0.2	0.0
Other	2.5	9.8	6.1	2.8	1.2	1.4	0.5	2.9	1.49	1.7	1.2
@ Total	100	100	100	100	100	100	100	100	100	100	100

Table 5.0.6: Tourist's arrivals- Sectional Wise

Source: Sri Lanka Tourism Development Authority

According to the above table, can be identified the arrivals of tourists increased in the section of environment and entertainment according to consider the statistics of last years. Accordingly, the future can get high attraction to Nuwara Eliya as more entertaining and environmental importance area.



5.2.4. Threats01.Changes of weather and climatic conditions

Figure 5.22: Climatic & Weather condition changes



Source: - MMI Research Report2016

The climatic condition of the area has been changing with due to the global climatic changes. Those changes can identify through the above figures. It will be effected to the change the Nuwara Eliya unique climetic condition. There for it will treat for the Goal of Imaging Uniquenes of Nuwara Eliya



Strengths S

- 1. Tourism attraction places
- 2. Existing colonial architectural buildings
- 3. Upcountry cultivation
- 4. Tea estates
- 5. Unique flowers and horticulture
- 6. Municipal council with high revenue
- 7. Seasonal festival of Nuwara Eliya
- 8. Locate near to upcountry railway line
- 9. Internationally famous tourism destination
- 10. Proposed and ongoing projects

W Weaknesses

- 1. Polluted drinking water and inadequate water in dry season
- 2. Not get best and optimum use from the government land
- 3. Decreased the constructions with unique architectural features
- 4. Disturbs to viewpoints due to improper constructions
- 5. Distribution of low income settlements and slums

5.3. To enable Sustainable people centric vibrant economic development within the area.

- Sri Lankan Tourism Development Plan 2017-2020
- 2. Proposed Sri Lankan express ways network
- 3. Agriculture Development projects by Agriculture Department
- 4. Increment of tourist's arrival to Sri Lanka

Oppotunities

- 1. Surrounding towns development as tourism strategic cities (Ella, Bandarawela, Haputhale, Nallathanniya)
- 2. Entering roads to Nuwara Eliya is become critical situation in rainy days

3. High no of tourists arrive to Nuwara Eliya within less no of days in April

T Threats

5.3.1. Strengths

06. Municipal council with high revenue

There is high opportunity to invest for development due to having surplus revenue of the Nuwara Eliya Municipal Council. Therefore it is best support to development of town as well as its infrastructure facilities. The income and expenditure of the Municipal Council is display the following chart.



Figure 5.23 – Annual revenue and expenditure of Nuwara Eliya MC

07. Seasonal festival of Nuwara Eliya

The seasonal festivals and programs of Nuwara Eliya is held in April month of every year and therefore many of tourists attract to the area. It is main festival in Nuwara Eliya which attracts 100000-200000 of Localtourist. The following graph shows the arrival of tourists and organizes many events and programs throughout the year. High demand for the hotels and guest houses within the seasonal period and helps to increase economic benefits for the area.



Source: Nuwara Eliya MC



Figure 5.0.14: Seasonal festival of Nuwara Eliya

Source: Nuwara Eliya Municipal Council

08. Locate near to upcountry railway line

The location near to the upcountry railway line is the highest benefit to attract more tourists to the area. Especially the most of travellers select the train as their travelling mode due to the beautiful sceneries along the railway line. Nanu Oya railway station is the nearest station of Nuwara Eliya and also is major destination.







Figure 5.16: Locate near to upcountry railway line



08. Internationally famous tourism destination

Nuwara Eliya town is famous as major tourism destination in locally as well as internationally and as that, it's great support to develop the tourism industry of the area. Also, according to the international ecofriendly classification, Nuwara Eliya takes highest place. In addition to that, Nuwara Eliya recognized as main traveling destination within Sri Lankan context



Figure 5.0.17: Internationally famous tourism destination

Source: Internet



10.Proposed and ongoing development projects

Proposed new projects and ongoing projects within Nuwara Eliya area show the following table.

No	Project	Present Status	Investment (Mn)	Funding Institute
1	Nuwara Eliya new hospital	Ongoing	14000.00	Ministry of health
2	Gregory Lake Landscaping Development Project	Ongoing	450.00	Urban Development Authority/ Nuwara Eliya Municipal Council
3	High altitude Sports Training Complex	Proposed	12000.00	Sports Ministry/ Private sector
4	Nuwara Eliya Central Market Developemnt	Ongoing	450.00	Urban Development Authority/ Nuwara Eliya Municipal Council
5	Housing Projects for Estate workers	Ongoing	-	Ministry of Upcountry New Villages, Estate Infrastructure & Community Development
6	Eco Villa Project at Ocklay Cottege	Proposed	-	Urban Development Authority
7	Middle Income Housing Project	Proposed	-	-
8	Ocean View Mix Development Project	Proposed	-	-
9	Nuwara Eliya Theme Park Project	Proposed	-	-
10	Central Water Treatment Plant	Proposed	-	-

Table 5.9- Proposed and Ongoing Projects



Greater Nuwara Eliya Development Plan 2022-2032 Above main projects give highest contribution for the development of economy of the area.

5.3.2. Weakness

07. Less facilities for the tourists

There were 02 Mn foreign tourists came to Sri Lanka in 2016 and 7.5% of among them visit to the upcountry areas of Sri Lanka as per the Annual Report of SLTDA.

Most of the tourists arrived to country for the purpose of entertainment .It's 23% in 2016 and 66% in 2015.According to the statistics, there were nearly 950,000 local tourists and about 135,000 foreign tourists arrived to Nuwara Eliya and the existing tourist's facilities which are the common facility and services centers, enoughaccommodation places, aren't sufficient to them. Therefore this is the main issue of the area.

5.3.3. Opportunities

1. Sri Lanka Tourism development Plan 2017-2020

Nuwara Eliya identified as one of the major town which is going to develop through the Tourism Development Plan by Ministry of Tourism Development. That is the great opportunity for the tourism development of the area. According to that, Nuwara Eliya is in first stage developing town.







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2 Proposed express ways of Sri Lanka

02.New and Proposed High ways

The destinations of proposed express ways of Ratnapura, Mattala and Kandy which are most close to Nuwara Eliya and therefore travellers can be easily reached to Nuewara Eliya from above destinations. The products of the area can transport other places and tourists can be visited to here easier.

Figure 5.0.19: Proposed High Way Road



Source - Internet

03.Agricultural Development Projects of Agriculture Department.

The agriculture development projects and plans which prepared by Agriculture department and its institutions (2017-2020) are best supportive ways for development of agriculture sector of the area.



04. Increased tourism arrivals in Sri Lanka

The tourist's arrival rate of Sri Lanka is annually increased and therefore due to that can be expect ed to more tourist's arrivals to Nuwara Eliya as well. Following graphs show the table



Figure 5.0.20: Tourists' Arrivals

Figure 5.0.21: Tourists' Arrivals

				rth Trei ge 1963	Second Second		1000			a		Table (a
Market	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Average Annual Growth Rates
Western Europe	2,917	2,498	2,115	2,171	3,255	4,088	4,820	5,337	6363	7,647	8,613	29.6
Asta	4,024	3,338	2,926	2,960	4,087	5,559	6,382	8,775	10,644	10,644	14,686	28.6
North America	1,014	806	660	712	1,153	1,525	1,612	1,990	2,065	2,614	3,216	7.2
Australasta	2,954	2,728	2,752	3,087	4,392	6,099	5,936	8,576	8,444	8,588	11,033	25.0
Others	3,536	5,749	6,492	6,507	9,461	11,980	17,092	23,193	30,450	38,776	30,776	54.0
All Markets	2,943	2,598	2,306	2,355	1,442	4,501	5,288	6,703	8,031	9,457	10,785	26.2

Source – Annual Report. Sri Lanka Tourist Board



5.3.4. Threats1. Surrounding towncenters as tourism attractive towns.

Surrounding towns of Ella, Bandasrawela, Haputhale, Nallathanniya is developing as major tourist's attractive destinations and the arrival rates has been increased within last years. Therefore these changes affect to Nuwara Eliya tourism industry.

2. Entering roads become dangerous situation during the rainy days.

The accessing roads to Nuwara Eliya of Awissawella- Hatton road, Kandy- Badulla road, Badulla- Welimada road are become dangerous during heavy rainy days. Therefore most of the tourists disincline to visit to Nuwara Eliya due to above situation.

Figure 5.0.22: Existing Situation of some roads in rainy days



In November 2007 the rains left elevien dead and three persons went missing in the Walapone and Hanguranieto divisions of the district. The area is also prone to tandelides, in 1963 trutteen persons dee in tandsides at Ketayapathana, while Vathumulta was affected by tandsides in 2006 and in 2007.

The Red Cross and a number of other NGOs continue to provide relief to victims of these landsides. To face this situation the Red Cross hills identified a number of volnerable areas and commenced setting up centres to house victims of landsides in addition to training community based organisations in disaster management.

Ven. Kudaligamuawe Sediavimala Thera of the Subodharamaya said the Red Cross had helped victims of the 2007 bindside. The Principal of the Pussadova MMV A KR AI Daynatahne, said the Red Cross had traned the students of his school to help victims of such disaaters.

He added in the event of earth slops or landslides his school would be used as a disaster management centre and a centre to house the victims. The school can house up 6.2.000 victims the said. Mr Deparative address the ICRC has understains to build a and around the school for security reasons and provided find and training to students to help victims of disasters.

se said the school also had adequate communication facilities but added it needed a stand-by electricity penerator now that it had been designated a disabler management centre



03.Highest number of local tourists arrived to Nuwara Eliya within few days of April month

There are high no. of local tourists visited to Nuwara Eliya within seasonal periods of the area and daily tourist's arrivals from 10th to 20th of April season are nearly 100,000-150,000. The situation arise congestion and also it become major issue when facilitating the infrastructure to them. Following graph shows the tourism arrival to Nuwara Eliya



Graph 5.2: Tourists' Arrivals



Greater Nuwara Eliya Development Plan 2022-2032 CHAPTER 06- THE PLAN

6.1. Concept Plan

6.1.1. Introduction

The concept plan mainly focuses on preserve the natural sensitive environment, protect the forest cover around the mountain range and protect natural water body system

The natural mountain ranges of Kikiliyamanna, Single Tree, Magastota, Lover's Leap, Piduruthalagala, Seethaeliya which situate around the area supposes to preserve as green natural zone with making clean water body network of Nanu Oya Stream, Barrak Plain. Thalagala Oya and other sub streams. Also, expect to create entertainment zones and tourism zones for the people who live in the area as well as tourists by achieving sustainable development via enhancing quality of sensitive environment of the area. At the same time, supposed to provide infrastructure facilities related to socio- economic, commercial by centralizing the town area to all city users and hope to improve mix residential uses with humanizing unique upcountry cultivation in same manner associated in the surrounding town centers like Hawaeliya, Bambarakele, Miipilimana, Katumanna. Specially the cultivation pattern is hope to make as balanced ecofriendly environment.





6.2 Proposed Land Use Plan

The city of Nuwara Eliya and its surroundings are prominent as best tourism destination with highest tourists' attraction due to the geographic situation, environment sensitivity as well as amazing and precious natural environmental features which can't be comparable with other areas. Other than that, upcountry vegetable cultivation and tea estates can be seen most parts within Nuwara Eliya as the salubrious climatic condition which is high valued assets of the area. When considering the above facts, Nuwara Eliya based on the economy with foremost upcountry cultivation as well as tea plus tourism industry and the most prominent factor is environmental equilibrium that essential to every factors.

The plan expects to achieve future goals and objectives through sustainable ecofriendly development accordingly the vision of *"THE PARADISE OF MISTY HILL"*.

Also the plan identified the development strategies and projects for facilitating maximum level of tourism infrastructure with entertaining and especially identifying tourist's attraction places with the objective of protecting and preserving the natural environment, water bodies and its related important places. In addition to that, proposed land use plan identified bringing the economic development through improving the services and infrastructure related to agriculture and tourism sector for the local people and then makes a way to earn more profit from those industries. Zoning, strategies and projects as well as regulations has been identified through the plan



Greater Nuwara Eliya Development Plan 2022-2032 Map 6.0-1: Proposed Land Use Plan



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Greater Nuwara Eliya Development Plan 2022-2032

Figure 6.0.2: Cross Section from Race Course Ground



6.3. Economic Development Strategies

6.3.1. Introduction

Tourism industry, upcountry vegetable cultivation and tea cultivation are the main income generation economic activities within the greater Nuwara Eliya development area. This chapter presents the strategies proposed for the development of each of this economic sector.

Since, tourism industry is the most significant economic activity and also because the other economic activities are also have significant interlinkages with the tourism activities of the area, the economic strategy is mostly focused on the tourism development. The development of other economic sectors are also discussed in the latter part of the chapter.

6.3.2 Present status of the tourism and other economic activities in Nuwara Eliya It is highlighted feature that the tourism industry comprises of both local and foreign tourists. There are 147,470 foreign tourists and 1,400,000 local tourists arrive to Nuwara eliyaa annually. 6% of foreign tourists arrived to Numara eliya out of total foreign tourists visiting Sri Lanka.

6300 million rupees income is generated by foreign tourists arrivals to Nuwara eliya. It is 1% of the total tourism industry income. 5500 million rupees of income is absorbed to the Nuwaraeliya area from the local tourists visit to the town annually.

There are 180 hotels and guest houses within the Numara eliya area based on the tourism industry and there are 1500 number of rooms in that accommodations. Certain number of direct and indirect employees was engaged in this sector. Mainly tourist guides, entertainment service employers in related to the industry in the generated employment in this sector. In the total number of employees engaged in the Numara eliya area, most of employees are in the tourism related entertainment services, tourist guides to be a main service in this employment generation sector.

One of the main expected goal to achieve by this development plan in the year of 2030, is increases the foreign tourist up to 10% that"s 65,000 number and local tourist up to 4 million and also expected staying nights in this town increase up to 2 nights to 4 nights by this development plan.

In between 125 – 150 tons of vegetable transports daily done in the town to other areas of the island. Vegetable cultivation is doing in 897 hectares of lands within the greater Nuwaraeliya development area. By this vegetable cultivation earned income is about 4200 million rupees. And also 5000 million of rupees income is flowing to the foreign countries through these dedicated economic centers. This amount is 23% of value compare to the total vegetable income in upcountry vegetable earning.

And also tea cultivation contributes to the Sri Lanka economy is certain extent and it assist to the development the tourism industry as well. Cultivated tea land extent in greater Numara eliya development plan area is about 1332 hectares and it is 23% of the total land extent in the district. Estate workers 2550 are engaged in this tea cultivation within the area. Annually 250

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Greater Nuwara Eliya Development Plan 2022-2032

million of income generated by the tea cultivation within the area and it is 0.01% in the total tea cultivation income in Sri Lanka.

In addition to that livestock management and flower cultivation also income generated sectors within the area. Reported number of 54 livestock farmers are in the area and their annually earned income is about 65 million rupees. There are 270 endemic flower cultivators are reported and also flowers were planted generally in all the home gardens within the area. Annually earned income from the flower cultivation is about 6 million rupees within the area and main areas of flower cultivation within the area are Shanthipura, Lovers leap, Meepilimana and Boralanda the areas are to be highlighted.

It is identified that the main income generated way as tourism sector in the greater Numara eliya development area as it is a priority income earning sector at present in Numara eliya. In related strategies to that are the targets to achive the expected "vibrant economy" in the development planning area. And also through high tourism attraction, it is expected to achieve aims up to 10% tourist arrivals from the immigration tourists to Sri Lanka and expected staying nights up to 4 nights.

From these strategies it is expected to develop tourism sector as it is the main source of the Nuwaraeliya town economy, in the year of 2030, expected daily tourist arrivals will be 25,000 and its highest target will be up about 50,000 tourists. It is essential factor that is in tourism sector development and to achieve targets for "vibrant economy". Also it is expected to achieve and completed that Nuwaraeliya foreign tourists arrivals up to 12% out of the total Srilanka foreign tourist arrivals and staying tourists" nights up to 4 nights from present as they are in at 2 staying nights.

6.3.3) Tourism Development

The proposed toruism development strategies can be categorized in to two sections namely tourism promotion strategies and tourism facilitation strategies.

1. Tourism Product Development Strategies

The tourism product development strategies proposed for the Nuwara Eliya DP area or in other terms the Nuwara Eliya Central Tourism Area cover following aspects.

- Recreational tourism development based on Gregory lake, Victoria Park, Racecourse and the surrounding area
- City centre based flower tourism and city beautification programme
- Conservation of the unique British architecture of the city
- Development and promotion of tourism attractions located in and around the Nuwara Eliya city centre
- Promotion of tourism trails in and around Nuwara Eliya city centre
- Promotion of unique tourism products of Nuwara eliya including vegetables, fruits, flowers, diary and tea.
- Facilitation of tourism attractions located outside of DP planning area

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I. Recreational tourism development based on Gregory lake, Victoria Park, Racecourse and the surrounding area

The recreational tourism projects and programmes proposed based on the Gregory lake and the surrounding area are shown in the below table.

No.	Project Name
01	Construction of a Theme Park at the upper part of the Gregory Lake
02	Construction of International High Altitude Sports Complex at the Race Course
03	Construction of an Entertainment Zone at Barrackplain Reservoir
04	Development of motor cycle and motor car racing tracks at the upper Gregory Lake area
05	Public ground improvement at Lake Gregory- Nuwara Eliya
06	Cable car project linking Nanu Oya station with Nuwara Eliya town center
07	Development of a greenbelt along the Nanu Oya Stream with Pedestrians walk ways and cycling paths.
08	Develop foot paths and cycling paths along the forest edges surrounding the city.

Table 6.0.1: Recreational Tourism Projects

According to that it is expected to make the lake Gregory surrounding environment zone as completed tourism zone through increasing the tourism activities. Theme park construction at the upper lake area, pedestrian and cycle paths development around the lake Gregory, construction of running ways for motor bicycles and motor cars, construction of tourist facility centers, as a sustainable development system. Construction of connecting foot paths and cycling ways from town center commercial area to entertainment zone at lake Gregory as a sustainable development system, introducing multi activity projects to the local tourists who are in around the lake Gregory surrounding area zone and it will be more time to stay there and also it is expected spread tourist arrival in all 12 months of the year.

It is fulfilling the aim of 12% increase of tourist arrival to Numara Eliya by making the new attractive zone for tourist in the urban area. Introduced the new entertainment activities with more attractive large medium and small scale projects within said zoning areas. Accordingly Race course ground will be a high altitude sports and athletic training center in the south Asia will be open next 3 years of time, and it is a fortunate opportunity to athletics to training sports in this town. It is another trend of tourist attraction to the town and it will increase the tourists at about 15,000 annually. Hence it will make tourists arrivals up to 1% by this strategy.

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Greater Nuwara Eliya Development Plan 2022-2032

Further it is expected that the cable car project to construct for tourist attraction at the starting point of old railway station to town center location of lovers leap waterfall crossing single tree mountain range and Gregory lake zone.

II. City centre based flower tourism and city beautification programme

This strategy consists of both project interventions as well as regulatory interventions. Nuwara Eliya has always been famous for flowers and there are a variety of flowers bloom seasonally as well as year-round. The cold climate and frequent rainfall pattern which is unique to the area provide favorable conditions for a variety of flower plants. However, recently, the flower market of Nuwara Eliya has experienced a slight decline due to various reasons and although the Nuwara Eliya has the potential to be one of the top flower destination in the world, it has not fully tapped its potential.

Hence, following projects and regulatory guidelines are proposed within Nuwara Eliya City Center in order to re-promote the flower culture in Nuwara Eliya.

No.	Project Name
01	Carrying out a roadside flower landscaping project within Nuwara Eliya
	City Centre and along the main roads.
02	Allocating a space within Victoria Park for a Flower Market and a Flower
	Exhibition centre.
03	Introduce a unique signage system for Nuwara Eliya area capturing its
	unique architectural and cultural characteristics and floral arrangements.
04	Introduce South Asia's largest flower show -
	Carry out seasonal and annual flower shows, parades and festivals at the
	city center integrated with complementary events such as fashion shows
	and horse riding shows etc. combine with the Victoria Park
05	English Garden promotional programme in collaboration with hotels and
	bungalows in Nuwara Eliya City Center

Table 6.0.2: Project Interventions

Table 6.0.3: Regulatory Interventions

No.	Project Name
01	Introduce regulatory guidelines to maintain the flower edges, flowery landscapes in the building line and maintain the building facades with appropriate flowery creepers and plants according to proposed flower themes.
02	Introduce appropriate colour themes for building facades.

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III. Conservation of unique British architecture of the city

Nuwara Eliya inherits a unique architectural character which reflects on British architectural influence. There are number of existing buildings and city features which reminiscence the British architectural characteristics. One of the two key reasons why Nuwara Eliya is known as 'Little England' is this unique British architectural character blended with its cold climate and natural hill land character.

Accordingly, the following project interventions and regulatory guidelines are proposed to preserve this unique architectural character of Nuwara Eliya City centre.

Project Interventions

No.	Project Name
01	Carryout a conservation project focusing on the archeologically declared
	buildings and buildings with unique British architectural characteristics in
	consultation with the Department of Archaeology and relevant experts.
02	Carryout a project to introduce roadside city features such as lamp posts,
	symbols and monuments and benches etc. which characterize the unique
	British architecture.
	- Along Hatton Road from Presidential Bungalow - Gregory Lake
	 Grand Hotel Road
	– Park Road
	– Wedderburn Road
03	Design of public squares/streets within Nuwara Eliya City Centre
	reflecting on the unique British architectural characteristics blended with
	Sri Lankan architecture.
	 Junction at the Presidential Bungalow
	 Junction at the Araliya Hotel
	 City center junction close to BOC Bank
	 Junction close to the bus stand
	- Street strip from the Junction at the Presidential Bungalow to
	Junction at the Araliya Hotel

Regulatory Interventions

Table 6. 0.5: Regulatory Interventions

No.	Project Name	
01	Regulate the building facades in selected areas and road strips as to	
	conserve the British architectural characteristics.	

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IV. Development and promotion of tourism attractions located in and around the Nuwara Eliya city centre

There are number of attractions located within the Nuwara Eliya city centre and in the immediate surroundings. Development and promotion of these attractions are discussed under this sub-strategy.

No.	Project Name
01	Development of an observation center with relevant facilities at the Single
	Tree Hills and development of tea promotion kiosk. (This will be
	implemented combined with Cable car project)
02	Development of an observation center with relevant facilities at
	Shanthipura, development of tea promotion kiosk and landscaping
	improvement along the access road.
03	Promotion of a natural trail within Galways forest and having a dedicated
	eco-friendly camping site at a minimum disturbing location within the
	Galways forest.
04	Oakley Cottage development parallel to the development in Galways
	Forest
05	Development of a Wax Museum at Victoria Park
07	
07	Open a portion of the Golf Course for general public and promote
	commercial programmes such as Golf training programmes, public golf vent etc.
08	Facilitation project at Lover's Leap
08	Facilitation project at Lover's Leap
09	Promotion of hiking and camping at Kikiliyamana and Lover's Leap
	mountains
09	Development of an Indigenous Medicine Ayurvedic Spa and Eco - tourism
	center at Okley Cottage
10	Pedestrian walkway and cycle path development in identified routes in
	Nuwara Eliya City Center.
15	Promotion of Nuwara Eliya Railway Station which is located on the
	Nuwara Eliya - Uda Pussellawa as a tourism attraction.
16	Promoting caravan sites at appropriate locations in Nuwara Eliya.

Table 6.0.6: Development and promotion of tourism attractions

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V. Development of market spaces for unique tourism products of Nuwara eliya including tea, vegetables and fruits.

No.	Project Name
01	Facilitate and promotion of existing tea boutiques and development of tea
	boutiques at the key tourism attraction points and the proposed public squares/ public streets.
02	Upgrading and facilitation of the existing vegetable and fruit markets in
	the town center

Table 6.0.7: Development of market spaces for unique tourism products

2. Tourism Facilitation Strategies

Identified tourism industry as a main base of the town economy through this greater Nuwraeliya development plan, and identified other services related to development associated infrastructure facilities also directly and indirectly contribute to tourism industry development. Accordingly identified infrastructure strategies for road storm water drainage and sewerage system also directly contribute to the tourism industry development. Especially, through making drinking water quality improvement will be resulted finally it will be a change of the belief of tourists regarding supplied drinking water, and that fact will be a reason for good services supply for tourists and increase arrivals to the area.

Creating centralized sewerage system will be a reason to preserving of environment and it avoided the water system pollution. It is again will be a reason to tourists' industry progress and economic development in indirect way. As such creating high density tourism zone through the zoning regulation giving priority tasks that targeting tourism industry, it will be a progress in tourism sector.

Through landscape strategy development will make scenic beauty increasing and it will be further enhance the tourism attraction. Introduced the development strategies and regulations through this development plan to preserve environment. Those strategies indirectly impact to economic development.

Tourism facilitation strategies which focus on provision of adequate infrastructure to enable successful functioning of tourism activities are equally important as tourism promotion strategies. Hence, this sub-section elaborates on various modes of facilitation such as common tourist facilities, accessibility improvement to and in between different attraction points, development of tourist accommodation facilities and standardization of tourism accommodation facilities and other services.

I. Common tourist facilities development

147,470 foreign tourists and 1,400,000 local tourists visit Nuwara Eliya annually. The total tourist arrival during the April season is The existing tourist facilities are not adequate to cater the demand created by this large number of tourists especially during the season. Hence, following common tourist facilities development projects are proposed.



No.	Project Name	
01	Development of the main tourist facilities centre and information centre at	
	the Gregory Lake.	
02	Provision of basic tourist facilities such as drinking water facilities,	
	washrooms and seating as appropriate at tourist attraction points.	
03	Installation of information boards at selected tourist hot spots within	
	Nuwara Eliya City centre and at attraction points.	

II. Accessibility improvement

Easily accessibility enhances the level of attraction of tourist attraction points. Hence, it is important to improve accessibility through various modes of transport. Following projects have been proposed to enhance the accessibility of tourism projects.

Table 6.0.9: Accessibility improvement

No.	Project Name	
01	Introducing eco-friendly vehicles renting system including different	
	vehicles such as electric cars, electric bikes, bicycles, electric carriers etc.	

III. Standardization of tourism accommodation facilities and other services

Maintaining the standards of tourism services is important to maintain the attraction level of a tourism destination and to have more and more repeat tourists. Compliance with international and national standards make the destination more assuring and reliable to tourists. Accordingly, following actions are proposed to standardize the tourism services in Nuwara Eliya.

No.	Project Name
01	To have a registration system for all types of tourism service providers in
	Nuwara Eliya and maintain an open web portal which has all tourism
	related information about Nuwara Eliya and which also facilitates online
	operation of tourism services.
02	To strictly enforce the SLTDA's standards for tourism accommodation
	facilities and other services especially for house renting
03	To have a tourist registration system operated through the online web
	portal.
04	Implement tourist service providers training programmes linked with hotel
	associations and other service provider associations.

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6.3.4. Strengthen the economy through the upcountry vegetable cultivation.

From this development plan, it is expected to continue the upcountry vegetable cultivation as it is in the present situation, and upgrades it to earn high income to the Nuwaraeliya town economy. Daily tons of 100 - 150 of quantity upcountry vegetables transport to other areas of the island from Nuwaraeliya town. However the farmers do the vegetable transport directly from the vegetable farm lands without cleaning or proper packing. There is a strategy in this development plan to make cleaning and packing service for the vegetable transportation. For that proposed to build vegetable supply center in the town. According to the zoning plan, it is expected to limit the population density in the areas of Sandathanne, Shanthipura, Meepilimana where the vegetable cultivation in currently high areas and named as vegetable cultivation zones. Through that it is expected to minimizing the plot coverage further as well and to lessen the building constructions and land subdivisions in those areas. It is expected to keep the upcountry vegetable cultivation as the same as present and connect the endemic up country vegetable cultivation in Nuwaraeliya with tourism industry and to make regulation to develop tourism industry. And allow to agro-tourism projects within these zones by making plans. For the purpose of inclination of the farmers to carbonic vegetable cultivation, it is proposed to allow to projects related to carbonic vegetable cultivation in connection with tourism industry. It is recommended in this plan to obtain the GPA certificate from the agricultural department to all the agricultural activities. Through this, farmers will be motivate to cultivate carbonic fertilizer vegetable cultivation as well as minimizing the using of high pesticides so as to make reduce the impurity of water sources. It will be reason to supply of carbonic vegetable cultivation. These strategies will make fulfilling the strategies of that are need to environment balance as well as achieve the aims need to obtain water quality recommendation for reservoirs in the greater Nuwaraeliya development area from the central environment authority.

6.3.5. Commercial service development.

Especially though this service it is expected to supply commercial infrastructure facilities in the town center residing population and as well as to expected tourism population in 2030. High density mix zone in Nuwaraeliya town center and Hawaeliya sub town zone commercial constructions identified in this development plan. For the purpose of consumer facility development, it is expected to do the retail trade as well as whole sale development in the town center area. To achieve that aims it is expected to central market renovation, cargills ground associated ocean view shopping complex, St. Andrews shopping complex, park road shopping complex and open restaurant constructions, will be the development for targeting tourists. Through these developments it will get the opportunity to services supplied in the central area commercial and related office services.





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6.4. Strategies for environmental sustainability.

6.4.1. Environmental Preservation Strategies.

6.4.1.1 Introduction.

Natural eco-systems are included with highly sensitive feature are in the high altitude zone in Numara eliya. Accordingly in the National Physical Plan in 2011 and new national physical plan in 2017 of national physical planning department, this area named as highly sensitive environmental zone in Numara eliya.

The mountain ranges, water sources, eco-systems and attractive natural scenes will make high intensive in greater Nuwaraeliya area. There are water sources, water reservoirs extent of hectares 59.6 that is 1.08% cover the greater Numara eliya area. Mainly Gregory Lake, Nanuoya and related tributaries, Barrackplain reservoir and related waterways, lovers leap waterfall, Glenfall waterfall, Katumana reservoir, Magasthota irrigation reservoir are the water bodies in the area. Extent of Lake Gregory in about 90 hectares while Barrackplain cover the area of 40 hectares.

There are mountain ranges among the environmental features also considerd as important features within the area. Highest mountain ranges of Piduruthalagala, Kikiliyamana and Haggala are also among them. These areas are over 2500 meters over the MSL.

There are forest areas of about 1782 hectares are in percentage of 38.8% of total land area in within the greater Nuwaraeliya area. Of these forests reservations single tree, Haggala, Piduruthalagala and Bomurualla are the main forests in the area. Main two rivers of Kothmala oya and Uma oya tributaries of Mahaweli river are nature by these forest catchments.

It is further helpful factor to beautify of surrounding area tea cultivation lands in extent of 1332 hectares for scenic areas of Numara eliya further, Glenfall and lovers leap waterfalls in the town area also intensify the environmental beauty. Galways national forest park in extent of 29.42 also one other significant location in the eco-system. This area was declared as natural sanctuary in 1928 and again it was declared as national park in 2006. Birds endemic to Srilanka about 20 varieties are living in this sanctuary.

It is expected to create town preserving environmental sensitive eco-system with a vision of "Misty Hill Paradise" is for all the people can satisfied. For that it is identified in that vision is to achieve target of create purity water sources through preserving sensitive eco-system. To preserve environmental sensitivity, the main aims are, protecting existing forest areas, water quality of water spring sources are to be improved, make use of GAP certificate for all agricultural areas, In view of preserving the environment.

Misty hill paradise is the vision of the development plan, and for that main targets as preserving environmental eco-system and under the purity water sources system it was identified 5 aims. Out 5 aims, 4 are the main aims are, supply of pure drinking water in the year of 2030, improve the water quality of main reservoirs and get release the environmental encroached lands in the water sources. Existing forest percentage is keeping as it is in the present, and the preserving sensitive co-system in the directly contribute strategy to achieve all those above aims.

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Vibrant economic development and embodied construction features hereditary to Nuwaraeliya of the other targets also contribute in their strategy to fulfil above targets completely. Scenic angles and landscaping beauty of the areas open to see entering tourists to Nuwaraeliya, though the preserving the eco-system in the Nuwaraeliya area. By making environment sensitive green toward moving town and it will reason to tourist arrival increase to the town. It will indirectly help to staying nights increase up to 4 numbers.

6.4.1.2. Strategies1 – Sensitivity Preserved forest eco-systems.

As the dense forest cover area reduced by 6% during the last 5 years of time, in future it is expected not to lessen the cover area below 34% of existing forest at present rather than that extent. It is confirmed that forest limit area separated and zone the area and regulation are imposed to that area not allowed to any kind of construction. To prevent the unauthorized exposing of the forest, it is proposed to make foot path along the forest limit as an obstruction method. These footpaths fulfil the people walking facility and natural environmental season feeling necessity.

Also it is name on an obstruction zone at the edge of the limit of forest area; limit the development activities within the forest area. It is expected to build 10 meters reservation from the edge limit of forest reservation. Regulation imposed to preserve those factors to help preserve existing eco-system.



Greater Nuwara Eliya Development Plan 2022-2032 Map 6-0-3: Proposed Forest Eco-system.



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2 – Reservation allocation to water sources.

These are the activities proposed for reservation are, allocate less reservations allocation for main water ways, declared Gregory lake surrounding area as environment sensitive area and control the building construction, create boundary limits surrounding Barrackplain reservoir and construct pedestrian and cycle walk ways. It is expected from those activities to preserve water ways.

It is a new activity to avoid water contamination by human excreta and waste water is to regulations enforced to compulsory to build waste water refinery system with new building construction.

Create cluster refinery systems for existing hotels and tourist hotels, presently implementing project for control sewage system by Nuwaraeliya municipal council associated with JICA, are the two projects to helpful further preservation of environmental sensitive areas. These are identified lands for the proposed sewage system in this development plan. Regulation enforce for the reservation land covering the water sauces have to be used for cultivation under the GAP certificate.

3 – Water front activity.

Water ways of Nanuoya ela, Barrackplain ela and excess water ways are imposed minimum reservation, through that reservation people can have opportunity to enjoy using that area as walking path way facility, from that activity it will preserve the water reservation encroachment and will keep it clean the area and minimizing water contamination.

4- Enforced limitation conditions for preserve of environment sensitive areas.

Identification of environmental sensitive areas and named as environmental sensitive zones, accordingly sensitive zones numbering as 1, 2, 3 as main strategy. Identified areas as high sensitive area through the sensitivity study to consider for their zoning limitation areas.

Near the boundary limits of Udaradella and Shanthipura, shanthipura entering road with Bambarakele steep slope, two side area of Bambarakele Nanuoya ela, st Andrews road church and its associated forest, overspill of the lake Gregory land strip along the ela up to Blackpool, near the area of Uniqueview forest, are the main areas. Strict regulation enforced in this area for construction control start forestation in this area. And they will help to improve sensitivity. And also eco-system sensitive tea lands are enforcing regulation not to release for constructions will also doing this regulation imposing. Under this the identified sensitive areas are tea land associated Windiconer area, and tea land associated Bambarakele tea lands.



Greater Nuwara Eliya Development Plan 2022-2032 Map 6-0-4:– Sensitive Zones



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Strategies 5 – Prevention of obstructing scenic angles and increase of green dense forest.

In this chapter, it i expected to tourist attraction of arrived tourist to Nuwaraeliya and other people feel the taste of environmental scenic beauty and sensitivity further. Not allow the constructions obstructing the scenic plains of the surrounding area mountain ranges of the town. By this idea it is expected to at least 2/3 of the all mountain ranges sceneries to view the tourists.

All the buildings will be constructed and parallel to that at least 5 number of trees should be planted within the building land premises and also need to plant trees to cover the buildings to obstruct the view plain to the tourists. And also proposed to plant trees around the lake Gregory reservation and further it is proposed to implement all the other area road side tree planting projects for to continue to preserve sensitive environment of the town.

Strategy 6 – Environmental friendly Agricultural uses.

However, upcountry vegetable cultivation is identified as main income generating way in the economy of Nuwaraeliya town area, it creates impurity to the environment and the water sources is an identified problem. Hence it is proposed to lessen the using of the non-organic vegetable cultivation and also lessen the use of pesticides and farmers make inclined to organic vegetable cultivations in the extent of 200 hectares of lands in upcountry vegetable cultivation areas in Nuwaraeliya urban area. Accordingly it is recommended to all the agricultural activities should be done under the GAP certificate issued by the agricultural department.

Accordingly this strategy inter related to the strategy of solid waste disposal system of town area. And all the homestead garden should have to keep composting bin to make fertilizer.



6.4.2 Landscape and beautification plan. 6.4.2.1. Introduction

It can be consider that especially landscape beauty area Nuwaraeliya got the people fame on due to its own possession of natural scenic area connected unique beauty sensitive destination. Main reason for that is greater Nuwaraelya town area as a whole is located in an environmental landscape scenic area. Especially, it is the reason for Nuwaraeliya town possess of natural environmental beauty, from the past history, this area named as natural sensitive area. When the British ruled period, after they enter the area they thought that this area should be kept preserved area and continue it a resort town. And also it is the reason that landscaped based natural eco-system to increases of tourist arrivals to this area.

Main component among the above situation are that the existing eco-system, natured water falls, open lands, golf ground, Lake Gregory around associated environmental entertainment zone. 18 hectares of forest area and about 2 hectares of open areas and play ground as well as 13.3 hectare of tea cultivation and 5 hectares of water spread areas and about 8.5 hectares of upcountry agriculturel lands are within the sensitive greater Nuwaraeliya area, intensify the landscaping beauty.

In addition to this natural eco-system, there were about 130 buildings constructed at the time of British period with Victorian architectural features as hereditary human features beauty intensify further. After sometime build Gregory Lake Park, Victoria park landscape beauty of Nuwaraeliya intensify further as well.

However endemic natural landscaping beauty of Nuwaraeliya weaken at present due to high-rise buildings constructed covering scenic beauty plain, weaken natural forests resulted not appearance of water falls and scene of water ways, impurity of water ways, mainly influenced to this situation. On behalf of the hereditary architectural features applied another architectural features make hindrance to beautification. It is seen more construction of innovative buildings substitute for natural green constructions can be seen in the past.



6.4.2.2.Strategies 01. Natural landscape plains promotion.

Promotion of natural landscape beauty idea behind this is give the first priority to the natural eco-system in the landscape development. Accordingly in future need to do the continuation of the existing natural eco-systems more than to construction of artificial landscaping.

Following locations were identified for preservation of natural forest areas and new endemic tree planting areas in Nuwaraeliya. Accordingly Bambarakele, shanthipura sensitive zone and Unique view sensitive zone, Nanuoya ela bank two sides, upper part area of Gregory lake, front vehicle parking area of lake Gregory club, Race course ground, Udapussallawa road reservation, near the Blackpool bridge and Nanuoya ela bank two side area will be preserved as landscape areas.

01. Town center Recreational zone and landscaping.

Land plots where at Gregory lake zone in the town center in Nuwaraeliya town area, Racecourse playground, Golf course, Victoria park and president mansion, commander general's mansion, prime minister's mansion and associated lands of that premises will be used for minimum building uses preserving natural landscaping scenic beauty view plains. For that zoning and building regulations were identified for enforcement.

02. All the lands are homestead.

Except high density mix, high density tourism zones, all other zones as 50% enforced regulation high density mix and high density tourist zones 60% as homestead were enforced by regulation for flower cultivations, vegetable cultivation or landscaping activities and all homestead are planted at least 5 trees as compulsory as regulation.

03. Town beautification through water ways associated landscaping.

It is expected to achieve as a main resource of Nuwaraeliya water saucers associated landscape scenic plains protection and further promotion of that activity. Accordingly Barrackplain reservoir surrounding landscape project, two sides of Nanuoya ela banks landscaping, Katumana Lake and ela reservation landscaping, Magasthota Lake and ela associated landscaping, Magasthota lake associated area landscaping are targeted projects.

02. Town landscaping and preserve the naturally formed the structure features.

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It is targeted to cover the manmade concrete formation by green covers in the town center and along the road sides. And minimize of such construction in the future. Accordingly minimize the concrete formed constructions in the near road sides and currently existing constructions of concrete wall/brick walls and drains make beautification by green covers. Hoarding for commercial publicity will enforce by regulations of standard measurements, introduced common notice boards at the entering points of the sub-roads, enforced limitation conditions for trade notice boards, enforced to that by giving standard sizes by regulations as well as fixing locational standards, enforce the regulations to use suit colour for walls and roof of the buildings. Introduced the hereditary architectural features for Nuwaraeliya by regulations. Building high controlled by enforcing regulations so as to avoid covering of scenic areas beauty view plain by constructions.Entering points of Nuwaraeliya town at Toppass, Blackpool, Katumana and Boralanda will be beautified by making landscape with hereditary features of Nuwaraeliya.

6.4.3 Disaster Management Plan 6.4.3.1 Introduction.

Main disaster of earth slip and water flooding can be identified within the greater Nuwaraeliya planning area and according to data of national building research organization there are 3 earth slip prone areas within the area. Accordingly the areas of upper part of Uniqueview area, upper part of Bambarakele Shanthipura road, upper part of Waterfield, are the areas prone to earth slips. When experienced torrential rain in the Nuwaraeliya town, it resulted to overflowing the water ways and inundated lowlands and associated residential areas would be affected with flooding. Following table No 6.1 shows the areas that would be affected to disasters.

Location	No of families	Disaster
PWD Houses	60	flooding
St. Andews Drive	20	flooding
James Street	25	flooding
Uniqueview upper part	58	earth slip
Race cours e ground	54	flooding
Mahinda mawatha low land	34	flooding

6.4.3.1 Strategies

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01. Disaster area named as less developed zones.

Upper area of Uniqueview, upper part of the Shanthipura in the slop area of upper part of Bambarakele named as sensitive area, upper part of Waterfield drive and adjoining part of Boralanda forest reservation named as low density housing areas, and it will be a control of development activities.

02. Relocation of settled families.

(i.).The High attitude sport complex project is proposed and parallel 54 families currently live in race course ground to be relocated to the Hawaeliya lands belongs to the municipal council. This families facing to flooding of Nanuoya stream.

(ii). under the new housing development project, it is proposed to relocate 24 families presently settled in earth slip prone unique view area to Scrub state housing project.



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Map 6-0-5: Hazard Area



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03. Removal of silt deposited in main reservoirs.

- I. Demarcation of reservoir boundary of Barrack plain and remove deposited silt.
- II. Removal of deposited silt in Katumana reservoir.

04. Widen the water ways that are already damaged.

Widen the water way of Barrackplain, Water field drive, Thalagala oya and Nanuoya flows across race course area.

6.4.3.2. Development plan vision make suit to the targets.

Directly and indirectly supportive to achieve the targets of above disaster management strategies through preserving eco-system to win the vision of vibrant prosperous town center. Through minimizing the residential uses in the catchment areas of associated sensitive eco-system in the areas of water spring water sources can be avoided the impurity of that sources.

6.4.3.3. Other connected strategies.

Interconnected to the strategy of storm water flowing drainage system with increase up of the water volume of the reservoirs and water sources through minimizing disasters in the disaster management housing project, it is connected with the James street housing development project and unique view upper part houses relocation project. The low income family housing project for 54 families in proposed high altitude sport complex land to relocation project connected with strategies of economy development.



Greater Nuwara Eliya Development Plan 2022-2032 Map 6-0-6: Environment Preserving Strategies.





6.5 Social and physical infrastructure strategies 6.5.1. Service plan

One of the aims of this development plan is a supply the facilities and fulfill the service necessities of the connecting population as well as residential population through making sustainable development to all can be satisfied within the greater Nuwaraeliya development planning area to achieve the target of misty hill paradise.

It is targeted that the tourist arrivals for the all area is about 4.5 million in the year 2030 and it is daily average is 24,000. Residential population for 2030 year will be targeted to 60,000. On the other hand the employers and employees daily travel to the town is about 40,000 in the year of 2030. According to that it is analyzed the needed services for the residential and migration population by the strategies. Special attention will be forecast for the need of health, education and housing for the growth population in this development plan.

6.5.1 (A)Housing

Housing conditions of the greater Nuwaraeliya development area are in the lower level is a problem. Poverty level is 21.6% percentage of total population in the area and it is the reason for they are occuping substanderd houses. And also low facility houses as well as there are 2328 number of houses are shanties in the area. Main slum area locations are unique view, Kelegala, Nesby state, Galways area, Mc houses, PWD houses, Police lane houses, Scrub line houses.

According to censes and statistic department reports there are number of 224 families not have them to owned houses. there are 2328 houses in the area were shanties and line houses.

it is identified that the 21.6% percent of substanderd houses were targeted to reduce to 10% by the greater Nuwaraeliya development plan. Population of this area in 2016 is 49,331 and in 2017 it was 52,302. According to that growth rate it will be 60,000 population can be expected in 2030.Number of families were in 2012 was 11,008 and in 2017 it was 11,644. According to that the family size in as 4.4 can be calculated.

Having backlog in 2012 was 242 and it was 2017 is 247. Hence the population needed housed in 2030 will be 7698 and the needed houses will be1749.

The housing backlog in 2017 was 2.1% and comparative to it 2030 will be increased. And expected to reduce 3% by development of houses and needed other quantity will be fulfilled by the housing market in the area. Accordingly needed housing backlog can be analysis shown in below.



2030 needed excess quantity of house	<i>Greater Nuwara Eliya Development Plan 2022-2032</i> es 1749		
Obselet houses	116		
2030 needed total houses	<u>1865</u>		
Direct construction of houses 03%	179		
2017 housing backlog	247		
Direct construction of housing	<u>422</u>		
 Supply of direct houses Market supply of houses 	422 1443		
6.5.1.(A) Strategies 1. Direct housing projects.			
Implementation of 2 middle income housing projects.			
01 Scrub estate UDA land houses	80		

01.Scrub estate UDA land houses	80
02.Proposed middle income housing land-Hawaeliya.	
Meteorological department land houses	100

It is expected that the housing market will supply the needed facilities for the housing and develop the infrastructure facilities, throuth the planning and zoning regulations identified as medium density zones at Blackpool, Meepiliman, Ruwanpura, Katumana to implement by this development plan.

6.5.1.(a) 2.Renovation of low income houses.

According to the data it was identified that needed houses in 2012 was 2328(21.6%) and in 2017 it was 2533. specially in the margin zones and Nanuoya estate associated labour houses were lime houses, shanties are included to the backlog and to develop these houses proposed to through several strategies.



A.A	Location	No of	Land	Housing renovation strategies
		houses	ownership	
1	Bambarakele	55	National	Renovation with private investers at the
	PWD houses		housing	same location
			development	
			authority	
2	Bambarakele	150	Estate	construction by the instruction of UDA
	estate houses		companies/land	at the same location
			reclamaition	
			commission	
3	James street	50	golf houses	Renovation with private investors at the
				same location
	. .	100	X 1'	
4	Lady	400	Nuwaraeliya	Access area and common open space
	Maccalam		Municipal	develop according a plan
	Drive Mc		council	
5	houses	60	Numeroaling	Supply of infractoryotype facilities
5	Galways land	60	Nuwaraeliya	Supply of infrastructure facilities
	houses		Municipal Council	develop according a plan at the same location.
	G 1	000		
	Scrub estate	300	LRC /Estate	develop at the same location
			facilities	

Greater Nuwara Eliya Development Plan 2022-2032 **Table 6.0.12: Housing Renovation Strategies.**

6.5.1.(A) 3 Relocation strategies

Table 6.0.13: Housing construction strategies

No	Location	No of	Land ownership	Housing construction strategies
		houses		
1	Unique view	54	Government	Aquire the 2 acres of land in scrub
	housing			estate and relocation needed
	scheme			famillies and concomitantly
				renovation the scrub houses.
2	Scrub estate	100	Government	Relocation to new houses
3	Golf houses	54	Golf land municipal	connected the relocations to
			council	altitude sport complex project.
4	Boralanda low	50	Urban development	Invested by the owners at the same
	income		authority	location.
	housing			

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6.5.1 (B) Education

It is took value when compared to the primary and secondary education levels of other educational zones of the district with greater Nuwaraeliya development planning area. In the year of 2016 the national percentage of G.C.E.(O/L) examination result got through the examination in 71% percentage and it was of the G.C.E.(A/L) got through results percentage is 70%. However it was that the result percentage is the greater Nuwaraeliya development planning area 53% and 50% respectively. There are 14 schools in this educational zone and students 8600 are getting education. Out of that 30% of students daily travels for further educational purpose to other ares.

6.5.1 (B) 1. Strategies

01. There are only 5 schools have the sufficient playground out of 14 schools within the planning area and expects other 04 playgrounds to develop through this development plan. They are as follows.

i. Hawaeliya wajiraghana school play ground to be develop properly.

ii.Meepilimana Senananda school play ground development.

iii.Kalukale primary school playground development.

Iv.Magasthota Madduma bandara school play ground development.

02.Primary educational section development.

Space allocation for pre schools associated projects of proposed relocation of golf houses, associated scrub new houses, MC houses, Galways land houes, Nesby estate houses.

03. Tertiary educational development.

There are 4 main institutions are located within the area for the tertiary educational development. Namely vocational training authority, National Apprentice and technical training authority, Technical collage of Nuwaraeliya and youth service council. In addition to that 2 private educational centers in the area.

New oppotunities created targettiing trainning caurces for tourism and agricultural related development.

I. Start hotel school within the premises of vocational training authority.

II.Promote flower plant cultivation in the Bambarakel primary school as agricultural livestock associated vocational training center.

III. Start short term causes for ariculcural sector within the premises of seethaeliya seed potatoes reach institute. Causes starts for converting GAP certificate methodology and make awareness of proper agricultural methods for farmers.



6.5.1 (C). Health services.

Nuwaraeliya general hospital is the main medical facility supply center for the area. And it's new hospital complex act as a extenting of the hospital for the standerd of national hospital. There are 425 beds are presently use for patients and give services for highest no. of patients daily. No of doctors 105. and 525 number of beds are included to the new hospital complex as well.

6.5.1 (C).1. Strategies

1. Sufficient parking area facility development for new hospital complex.

I. As emergency entering way to the hospital, develop the lady Macclam drive for doctor's vehicle and emergency service vehicles coming in to the hospital complex.II. Road widen up to 12 meters and develop it from Udapussallawa road to hospital complex.

III.Develop the main parking area of the hospital.

Make large the waste water refinery system of the hospital and establish the incinerator for hospital solid waste within the hospital premises.

2. Promotion of private hospitals.

there is only one private hospital in the Nuwaraeliya area and it comprises 39 beds. However for the future tourism infrastructure facility promotions, it is suitable to allow the private hospital comprises of 10-20 beds within the high density mix zone.

3.Indegenous Ayurvedic therapy promotions.

It is arises the need of the Ayurvedic hospital for the tourism industry. With the tourism sector development in the area need arise to start ayurvedic hospital as a treatment center. For that make open oppotunity to private and public sector to participate and allocation of 2 area UDA land at Oaklay cottage premises can be provided.









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In view of misty hill paradise, preserve the excisting eco-systems and purity water sauces systems and highlights heredetary features to Nuwaraeliya and vibrant town economy are the targets need to achive the targets by the strategies through direct or indirect way.

Construction of new houses, renovation of how income substanderd houses and they will be resited to down the poverty level it will be comes to achive vibrant economy within the environmental associated eco-system in PWD houses, Unique view houses, giving them to alternative solution and make minimize the effect harmfull to the eco-system and preserve eco-system and make purity of water saurces and can be fulfill the targets.

Meanwhile the 21% of shanties and low income housing percentage 10% to reduce and through by the renovation of substanderd houses and uncover the scenic beauty areas and make reflecting of heredatory features of Nuwaraeliya of said facts can be fulfill the targets, it is helpful to recidential attraction are the facts, living standerds of residential population will up by the developing playground development and primary school development through achive vibrant prosporus economy to increse housing demand through upgrade living standerds.

Under the tertiory education development make training in the field of tourism and agriculture to services supply for 24,000 number of daily arrival of tourists by human resources training programme through that it can be achieved the target of vibrant prosporous town. People can train to proper agricultural uses, and through that can be achieved to the target of preserving eco-system.

Through the promotion of hospital vehicle parking under the health service, may help to health development of health service getting people, and it will acheive the target of vibrant prosporus economy.

Through the private hospital promotion and ayurvedic hospital construction may help to tourist arrivals and it can be acheived the target of the vibrant prosporus town.



6.5.2 Transportation

6.5.2.1. Introduction

Nuwaraeliya town is a tourist center and as well as district administrative center. Population of the district in 2012 was about 706210 while it will be about 7012000 in 2030. Accordingly travel population for administrative and other purposes to the town is about 62000 daily. Daily average tourist arrivals will be about 24000 as well while in the year of 2016 it was about 52,500 and population will be 59,000 in the year of 2030.

Out of whole tourist population 75% percent uses the private transport system and the community populaton 50% of the people travel by passenger transport services.

6.5.2.2. Strategies **01**.Streanthen the common transport services.

Transport services that are using by the people strenthen and proposed to more passengers to travel by common transport services.

(A) Create transport service for the passengers who travel to Nuwaraeliya from Nanuooya railway station as connecting transport service with trains. though this service it is expected more passengers arrivals to Nuwaraeliya.

(B) To making the Nanuoya railway station as a center, and from that point to town center, Gregory lake park, and tourist targetted cable car project transport services connect for toourists.

(C) Second stage of the nuwaraeliya bus stand development implementation and bus stand space management will be done properly.

(D) Waiting bus stand is proposed to develop at the Udapussallawa road, and by the sides of upper lake road and Gregory lake park can use for parking.

02 Sustainable transport systems for internal town centers.

(A) town associated center area and Gregory lake entertainment zone, high density tourist zone and high density commercial zone connecting pedestrian and bycical transport system. Through this system Gregory lake associated zone to Nanuoya ela reservation and also ela reservation up to Peradeniya Badulla A5 road and along the Udapussallawa road pedestrian and bycical road ways construction.





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(B) Construction of pedestrian path ways along the grand hotel road, new kandy road and park road, lady maccalam drive road, Unique view roaad.

(C) Town service transport system will implement when the more tourists arrival high time in the April season by this it can be minimize the vehical conjesion in the town.

(D) When in the pedestrian crowd are high time, to minimize the conjested problems, it is proposed to build under ground bridges at in front of Loson squre and it extent up to proposed market building and other one is proposed build at in front of bus stand for the pedestrian using telecom pathway.

(E) Construction of pedestrian network starting from unique view road junction to connecting grand hotel road via Glenfall road paralleled to Badulla road.

(F) proposed to build pedestrian pathway from right bank of Nuwaraeliya and associated area of park road pedestrian to use.

03. Covered pedestrian pathways.

(a) Town center Queen Elizebeth road, New Kandy road, Udapussallawa road, Court road, park road, Lawson street of all the pedestrian path ways proposed to build with covering roots.

04. Minimize the traffic congestion in town center

Weekend vacation and specially in the summer season when the tourists arrivals are high town center roads block with traffic congestion(Map No) the Peradeniya – Badulla main road can be highlighted. Traffic congested other roads are unique view road Glenfall road that were the many tourists hotels located, Haddon hill road, Upper lake road, Gemunupura road and baker's farm road. To minimize the traffic congestion on the above road need to widen those roads with facilitating pedestrian pathways.

Accordingly below mentioned roads proposed to widen at least 9 m width from the place of spot location number



			Spot location		
No	Road	Index No	latitude	longitude	
а	Unique view	1	6.963183°	80.766802°	
a	road	2	6.963303°	80.762125°	
b	Glenfall road	1	6.967167°	80.766553°	
U	Oleman Toau	2	6.966035°	80.762083°	
с	Haddonhill road	1	6.962537°	80.766718°	
C	Haddollilli Ioad	2	6.961483°	80.763590°	
		1	6.970334°	80.784507°	
		2	6.973198°	80.771879°	
	Lady maccalm	3	6.977272°	80.768346°	
d	road	4	6.976908°	80.767072°	
	Toad	5	6.977326°	80.765488°	
		6	6.976876°	80.765215°	
		7	6.976525°	80.764472°	
e	Upper lake road	1	6.966681°	80.772169°	
C		2	6.952154°	80.787155°	
	Magasthota –	1	6.947405°	80.791090°	
f	I Blackpool road	2	6.945892°	80.789567°	
		3	6.942315°	80.777272°	
a	Sandathenna	1	6.954727°	80.787399°	
g	road	2	6.970076°	80.785663°	
h	Baros road	1	6.972220°	80.775379°	
11	Daros road	2	6.968925°	80.779421°	
i	Jayathilake	1	6.973944°	80.767163°	
1	mawatha	2	6.977217°	80.768351°	
j	Kanakarathnem	1	6.974697°	80.767670°	
J	road	2	6.976469°	80.766378°	
k	Glenfall sub	1	6.965870°	80.767262°	
K	road	2	6.967150°	80.766555°	

Greater Nuwara Eliya Development Plan 2022-2032 **Table 6.0.14: Proposed Roads for widden**

05.All the roads are standards enforce to landscaping beauty and pedestrian crossing accordingly in future road development should done with at least 1 m width pedestrian pathways in to the sides at least 0.5 m width land strip for tree planting or endemic flower planting, and paralleled to the road land should allocate for service supplying multi service duck. Above land allocation should compulsory according to regulations.



Greater Nuwara Eliya Development Plan 2022-2032 Map 6-0-8: Road Development Projects



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6.5.3 Drinking water supply **6.5.3.1.** Introduction

Water supply distribution is done by the Nuwaraeliya municipal council within the limit of municipal council area. 35,000 of citizens out of total population within town limits are consumed municipal council water supply and there were 6977 commercial and residential water connections. Water connection categories are residential units 3950, commercial units 411 not residential units 950 and institutional and other units 245. Needed daily water volume is 4500 cu.m. and it's percentages are 72% residential, 18% commercial and tourism, and 10% for public and private institution are distributed.

All the water supply system is feed by 9 spring water sauces of within water catchment forest areas. Water storage tanks 15 in the area divided 7 distribution zones to covers all the municipal areas. Excess water supply needed for dry season will be supplied by 9 tube wells. Water volume supplied in the dry season by the water spring saucers is limited to 3500 cm.m. and the excess water supply by the tube wells are 1000 cu.m.

Out of all consumed water supply 70% is used in the Haddon hill zone and the main spring water sources are Pedrew estate and Toppas spring sources. Commercial, residential and tourism zones are covered by 5 main water storage tanks.

Hawaeliya Mahinda Mawatha around hospital area cover by the lovers leap and lower area zones daily supplied water volume is for the tank is 1750 cu.m. Main residential area with high density zone and location of the main hospital is in this zone is supplied water from this water catchment area.

Supplied water volume to this zone reduces down to 900 cu.m. in the dry zone during the January – April time was supplied water from H1,H2,H3,H4 tube wells and distributed.

However other dry season from December to April time also got down the water volume daily to 3500 cu.m. due to decreases water in the water sources. And water demand going up to 5500 cu.m. daily. Reason for this is increases of tourism arrival in this grama niladari division of Ruwanpura, Meepilimana, Katumana, Blackpool and Shanthipura area are water distribution is done by the separate divisional and rural water supply projects within the Nuwaraeliya Pradeeshiya Sabha. For that there is no proper mediation by the Nuwaraeliya Pradeeshiya Sabha.



6.5.3.2. Strategies.01 . Confidential water supply.

It is the aim from this chaper is countinuos water supply for the residential and tourism population within the town. It was esstimated the needed water volume for a day is 9500 cu.m. for the forcasted population in 2030 of town residential population 59,000 daily tourism population 35,000, people who coming for other purposes are 52,000 as accordingly forcast. Total population daily is the town in 2030. On the above forcasting figures in addition to daily supply water volume of 4500 cu.m. Other excess water volume needs 5000 cu.m. for 2030 as identified.

(A). Centralized water refinary center

(B).Loversleap water tank

Water collecting reservoir in proposed tobuild within the 7 area land in the bottom of loversleaf waterfall land owned to pedrew estate. It will be collected water volume in 15 acres of cu. feet. Main water saurce for that is loversleaf waterfall.

(C).Implementation of 1000 cu.m. project for residential and tourism units using water saurces is Haggala forest associated with Katumana and Seethaeliya area.

(D). Implementation of water supply project capacity of water 2000 cu.m. for residential and tourism purposes for 2030. Proposed to supply water to the areas of Meepilimana and Ruwaneliya area. The project is connecting with the Municipal council Nuwaraeliya water supply system as it is institute presently doing the water supply for the said area.





Greater Nuwara Eliya Development Plan 2022-2032 Map 6-0-9: -Centralized Water Refinery Unit and Water Tank

6.5.4 Electricity and Telecommunication facilities **6.5.4.1** Introduction.

It was reported that the population of greater Nuwaraeliya area is about 52,000 was in 2017 and it is daily average tourist for the town is extent of 7300 population. Maximum tourist arrivals reported was 50,000 in 2017. While the commuter daily travel to town for other purposes (exept tourist)was 40,000 and it will be in 2030 for 60,000. The Residentail population will be 59000 in 2030 and average daily tourist will be 35000 and ita maximum will 60000 per day.

All the area within the greater Nuwaraeliya development area are supplied electricity continuously by the electricity board, the extent of electricity supply is **8156** kilo watt for the day. Excess kilo watt 1500 needed for residential, tourism and commuting population for **2030**. Accordingly it can be forcasted needed electricity vome 2030 is kilo watts 9656.

When considered about telecom facility forcasting of the area, all the area coverd teelecome and other private mobile phone facilities sufficiently available in the area. However it is expected tourist arrival will be 33,000 ups for 2030 and tourist staying noights will be up to 4 nights in 2030. Due to that it is needed sametime calling facility for 100,000 subscribers within the area in the year of 2030.

Accordingly for the future tourism promotion, needed main infrastucture facilities of electricity and telecommunication would be fulfilled and it will be reason to promotion of tourism sector and can acheived the target of vibrant prosperous economy in the greater Nuwaraeliya planning area.



6.5.5 Storm water drainage, sewage and sewerage plan **6.5.5.1** Introduction.

When consider the rainfall of past 10 year period of duration in the Nuwaraeliya area, it's average annual rainfall is 2000 m.m. and in the same duration in 2010 reported rainfall was 2000 m.m. in and year of of 2010 it was 2157 m.m. in the year of 2013, reported as highest rainfalls shows the figures.

Year	Average Rainfall
2007	1675.7
2008	1587
2009	1639.9
2010	2182.3
2011	1699.6
2012	1971.1
2013	2157.9
2014	1857.7
2015	2021.2
2016	1137

Table 6.0.15: Annual average rainfal	Table 6.0.15:	Annual	average	rainfall.
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Source –department of meteorology

However it is reported that the highest rainfall reported in June, July, August and September months and the highest rainfall reported in one day on 05.02.2015 as 120 m.m. Accordingly rainfall experienced area was 56.78 sq.k.m. area got highest rainfallof 6,814,000 cu.m.

However it is 50 sq.k.m. extent of area covered by forests, tea estates and agricultural lands within greater Nuwaraeliya development planning area. And adsorbs the rainfall water of 50% and half of storm water volume will flows in the area water ways to streams.

For that drainage there are about lenght of 23. k.m. extent of drainage streams are disapers in the area. The storm water flowing main streams are Nanuoya ela, Barrackplain ela, Thalagala oya, Waterfield ela, Glenfall ela, Katumana ela are main streams. These streams are nurtured Gregory lake, Barrack plain reservoir, Katumana lake and at last to Mahaweli river.

However water flowing drains in the town are obstructing by the waste, main water ways diposited by still near the reservoir and people enchrochment reservation of streams are identified as a problem situation in to the drainage system.

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To preserving the existing system in the Greater Nuwaraelliya planning area and to acheive target of purity water saurces make it avoid of all obstruction to smooth water flowing of the water ways. Hense strategies of this plan will be achieved targets by direct and indirect way.

It is needed to avoid of dipositing waste water and excreta in the water sauces for that need to do the separated refinary systems for each projects and to establish centrelized refinary system with area cover network for waste water purification. Main target of this plan is purified water sources through preserving eco-system can be fulfilled direct way from these strategies.

6.5.5.2 Strategies **01.**Oppotunity for free and natural water flowing.

According to the geographycal situation lands are located with the angles of 10 20 degrees to 40 degree slop gap for proper water flowing. However the water flowing in the areas of town center associated area of Nanuoya and near the associated area of Gregory lake and Barrack plain lake associated area low lands are got unundated due to slowly water flowing. To avoid water flooding of those areas need to free flow of water ways without obstructions is main idea of this chapter. Accordingly it is expected to do the widning of water suppling main drain to Barrack plain resevoir removed of diposited silt in the reservoir water way fllowing through district ssecretory premises and Municipal council Nuwaraeliya of their drains need widen. Associated water ways in Sandathanne will be improved. Thalagala oya, Waterfield ela and Nanuoya ela reservation remove ecchrochments near waterfield drive, Nanuoya widen the Nanuoya ela, remove enchrochment and clear the water way. Widen the Katumana ela to waterflow freely.

02. Construction of silt traps for drainage water ways.

From this chapter it is proposed to build silt traps for minimize the silt depositting quantity within the area of Greater Nuwaraeliya development planning area. Accordingly it is proposed to build silt traps at befor the connecting point of Nanuoya to Gregory lake. Two silt traps for two water ways of Barrack plain resevoir and construction of silt trap for Katumana ela are the main projects for silt trap constructions.

03. Sewerage system development.

There is no sewarage system for the town within the Municipal council area. And it was proposed for the project of centralized sewage and sewarage project for to investment for the loan agreement with Japanees aids by the Municipal Council Nuwaraeliya. Accordingly proposed to cover the high population and tourist hotel areas for the sewarage system and after the project completion by the 2030, it wil help for tourism development and the centralized purification center will be located Blackpool area GPS latitude No 6.950552 and longitude No 80.768683 point.

In the future develop tourist hotels over 5 rooms and other hotels need to established a refinary to purify the waste water. For that regulations are proposed in this development plan.

6.5.6 Solid waste and waste water management.

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Greater Nuwara Eliya Development Plan 2022-2032

There are 25 tons at solid waste collected by the Municipal council within the limits of Municipal council area daily, and out of its total 20 tons (80%) of solid waste were digestible solid waste and 5 tons (20%) of waste non digestible solid waste.

Pradeshiya sabha area is located out limits of Nuwaraeliya Municipal Counsil area and it is visible that the solid waste collection are doing by the two sides of the road and not visible that collection is doing covering the residential area within the Nuwaraeliya pradeeshiya sabha area. Nuwaraeliya municipal council owned Sandathanne sanitory land filling project use for disposal of solid waste, they are not making separation of solid waste, therefor they can't use it for longer time to use and reset 10-15 years it will enough for waste disposal uses. Further it will leave to fill the volume of 60,000 cu.m. capacity of solid waste. However this solid waste disposal locaton can be use further 30 years of time by proper solid waste management doing efficiently fruitfully. And it is identified 3 strategies through this development plan for manage it for longer period of time for solid waste disposa. Agriculture development strategies suit with this strategies directly and indirectly inpact in the development of tourism industry and inter connected those strategies each other for the economic development of the town.

6.5.6.1 Strategies. 01. Waste further not waste.

It is expected that the further growth of population and immigration population growth, collection daily solid waste extent is 32 tons in 2030. Extent of solid waste volume can be reduce by the housing premises through the waste management systemfor 20 tons per day within the town limit of Nuwaraeliya. Digestable waste composting system to develop to all the medium density zone, less density zones and all the premisees in residential and tourism zones. In this zones it is compulsary to establish the composting bin and it is emposed by the building regulations, and emporced to do the waste collection only non digestive center for establish to collect non digestable waste can be located in the Sandathanne waste disposal site. Accordingly motivate the householders to establish the composting bins all the residential and other premises in above all zones. In this way they are use to composting organic vegetable cultivations. Plot coverage is the above zones are 50% and balance land should use for upcountry vegetable cultivation and flower cultivation also it is allowed for landscaping.

Through this process to need collection of digestive waste and it will be reason to reduced the waste within the limit of municipal council area.

02. Reuse of the non digestive waste.

In the year of 2030, the estimated non digestible waste extent is 8 tons and that quality only use for the container establish in disposal project. However in future for the tourist population make awareness for non digestable waste uses need to minimize non digestable waste collection should be done by the Municipal council and reuse of polythin and plastic collection need to improve.

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6.6 Strategies for the common open spaces.

6.6.1 Introduction

Common area can be devided in to two catogeries as open and indoor and again it can be divided as active and passive . Accordingly existing open and indoor spaces can be catogorized as follows.

Indoor/open	type	Location	Quantity(sq.m.)
Indoor	active	Cenesita indoor stadium	
		Common market exercice Gymnasium (Gym)	
		Nuwaraeliya sport club	
		Nuwarealiya motor racing society.	
		Old kandy road exercice location	
	Passive	Cinecita auditorium	
		Town Library	
		Regal cenema	
		Keepilimana community hall	
Open	active	Race couse ground	29
		Gregory lake entertainment zone	88
		victoria park	10
		Golf ground	20
		Hawaeliya play ground	1.6
		Vajiragnana school playground	0.5
		Kalukele school playground	0.2
		Senanayake school playground	0.4
		Dharmapala school playground	0.01
		Shanthipura school playground	0.1
		Boralanda Playground	1
		Holytrinity school playground	0.1
		Good sheperd convent school playground	0.1
		Ruwaneliya Playground	0.5
	Passive	Shanthipura, Piduruthalagala, Single tree view	
		point	
		Old buildings building features shown British	
		period Nuwaraeliya Architectural construction	
		near 129	
		Old centuary constructed British period	
		Hawaeliya urban cemetry	

Table 6.0.16: Common open spaces



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Accordingly open spaces and playground of 153 hectare of spread over the town area.

Map 6-0-10: Open land and playground



Source: NEMC

In the year of 2030, population of Nuwaraeliya area is 60,000 and daily tourists arrivals 35,000, and commuting population to the town for various purposes is 52,000 Accordingly open spaces and playground needed quantites.

Residential population - 60 hectare

Tourist population - 35 hectare

Daily commuting population - 13 hectare

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(It is estimated needed open space 25% is estimated as for percentage of total population to propotion)

Accordingly all land extent is 108 alread existing land for open space and this extent in sufficient for next coming year.

Though the out of town area more land available and less land available in Meepilimana area.

6.6.2 Strategies.

To avoid this situation below play ground development are proposed.

- 1. Develop the Boralanda play ground.
- 2. Develop the existing of vajiragnana playground.
- 3. Ruwaneliya playground extenting and development.
- 4. Meepilimana senananda school playground extenting and development.

6.7. Cultural and Historical locations development strategies.

There are 129 buildings in British colonical period are in greater Nuwaraeliya development area. Architectural features of Victorian, Geogian and British type buildings were named for needed presence buildings is the town area. (Building list in Table 6.7)

Building architectural features of that buildings to be preserved and further the building features need to be promotion by appling those features to new buildings . Accordingly identified the regulations. (Regulation No....)

One of the aim of this development plan is to preserve the heredetary building architectural features in Nuwaraeliya.

Enforced regulations are compulsory for main road near associated iddentified zones.



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Greater Nuwara Eliya Development Plan 2022-2032 6.7.1. Historical and Architectural valued buildings Nuwaraeliya Municipal council area – 2002

	Street Name Assesment No			land	l exten	t	Not available details	Total	(rears)		Not available details.	Total	
			>10	11-	21-	31-	ove			>100	101<		
				20	30	40	r 41						
01	Queen	Queen's couttage,	03	02	05	01	02	-	13	01	10	02	13
	Elizebeth	44,140,02U.V.,132A,12											
	road	6,114,108,104,50,01,42,											
	1040	38											
02	Upper lake	39,34,43/2,71(71/1,71/2	02	02	02	01	-	01	08	-	04	04	08
	road	,71/3),55,(55/1,)35,(35/											
	1044	2,35/3,35/4,37),85,(85/1											
),81/2											
03	Badulla road	162,34,68,66,46,142,1/1	07	01	02	-	-	01	11	07	02	02	11
		,25,144,136/3,156											
04	Haddonhill	16(17),07,02,71	02	01	-	01	-	-	04	02	01	01	04
	road												
05	Wedabon	02,05,12,14(14/1),24,09	03	04	-	-	-	02	09	03	05	01	09
	road	,7/5,22,13(13/1,13/2)											
06			00	02	01				11	02	07	02	11
00	Church road	06,6/1,15,10,12,26,(26/	08	02	01	-	-	-		02	07	02	11
		1,26/2),30(30/1,)1/22,3											
		0,34/1,32											

Table 6.0.17: Preserved buildings

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			el Nuwal		evelopi	nene i n		2002					
07	Park road	25,31(31/1)	01	01	-	-	-	-	02	02	02	-	02
08	Kandy road	340,381,395,(395/1,401 /1,325/1	03	-	-	-	-	01	04	02	02	-	04
09	St. Anrew's road	150,132/1,128,20,100,1 60,124	01	03	-	-	-	-	07	01	03	03	07
10	Watetrfield road	102,96,98,92,55,56,26,4 6,20/1	03	06	-	-	-	-	09	-	04	05	09
11	Lady macclm road	02,11,17,18,20,33,26,28 (28ぎ),35,4,3/4,90/4,4/2 ,2/2,10,80,190,55,01,14 9,157	07	06	02	01	02	02	20	02	09	09	20
12	Uniqueview road	07	-	01	-	-	-	-	01	-	-	01	01
13	Lebenon road	112/11	01	-	-	-	-	-	01	-	01	-	01
14	Glenfall road	3⁄4,1/1,25	02	01	-	-	-	-	03	-	03	-	03
15	Udappussall awa road	95,123,125,2/143* Old railway building	01	01	-	-	01	02	05	02	02	01	05
16	Mount marry road	18(24/1)	01	-	-	-	-	-	01	-	-	01	01
17	Rahula mawatha	07,06,20,	03	-	-	-	-	-	03	-	-	03	03
18	Keena road	25	01	-		-	-	-	01	01	-	-	01

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			iter mamar		<u>r</u>								
19	Grand hotel road	17,29,76,19/10,10,21	04	02		-	-	-	06	02	04	-	06
20	Hill street	14,	-	-	01	-	-	-	01	-	01	-	01
21	Kanagarathn am mawatha	09,11	01	01	-	-	-	-	02	-	02	-	02
22	Old bazzar	90	-	-	-	-	01	-	01	-	-	01	01
23	Long street	05	-	-	01	-	-	-	01	01	-	-	01
24	Cross street	25	-	01	-	-	-	-	01	-	01	-	01
25	Jayathilake mawatha	24,10,20,17	01	03	-	-	-	-	04	-	04	-	04
A	agmont No	UV Union	a viou										

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* Assessment No

U.V. – Unique view

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Greater Nuwara Eliya Development Plan 2022-2032 6.7.2. Identified Street Wise Preserved Buildings Distribution.

Nar	ne of the street	Total of		Plot o	coverage	(perches)		Bui	lding Ag	e (year	rs)	
		the	< 10	11-	21-30	31-40	Over	Not	Over	75-99	50-		Not
		units		20			41	defined	100		74	Below	defined
									years			49	
01	Queen	13	03	02	05	01	02	-	10	01			02
	Elizebeth												
	street												
02	Upper lake	08	02	02	02	01	-	01	04	-	-	-	04
	road												
03	Badulla road	11	07	-	03	-	-	01	03	03	03	-	02
04	Haddonhill	04	02	01	-	01	-	-	01	-	02	-	01
	road												
05	Wedabbon	09	03	04	-	-	-	02	05	03	-	-	01
	raod												
06	Church road	11	08	02	01	-	-	-	07	01	01	-	02
07	Park road	02	01	01	-	-	-	-	02	-		-	-
08	Kandy road	04	03	-	-	-	-	01	02	01	01	-	-
09	St. Andrew	07	04	03	-	-	-	-	03	01	-	-	03
	road												
10	Waterfield	09	03	06	-	-	-	-	04	-	-	-	05
	road												

Table 6.0.18: Road wise preserved buildings.

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11	Lady	20	07	06	02	01	02	02	09	01	01	-	09
	Macclam												
	road												
12	Unique view	01	-	01	-	-	-	-	-	-	-	-	01
	road												
13	Lebanon road	01	01	-	-	-	-	-	01	-	-	-	-
14	Glenfall road	03	02	01	-	-	-	-	03	-	-	-	-
15	Udapussallaw	05	01	01	-	-	01	02	02	01	01	-	01
	a road												
16	Mount marry	01	01	-	-	-	-	-	-	-	-	-	01
	road												
17	Rahula	03	03	-	-	-	-	-	-	-	-	-	03
	mawatha												
18	Keena road	01	01	-	-	-	-	-	-	01	-	-	-
19	Grand hotel	06	04	02	-	-	-	-	04	-	01	01	-
	road												
20	Hill street	01	-	-	01	-	-	-	01	-	-	-	-
21	Kanagarathna	02	01	-	-	-	-	-	02	-	-	-	-
	m road												
22	Old Bazzar	01	-	01	-	-	01	-	-	-	-	-	01
23	Long street	01	-	-	01	-	-	-	-	-	-	-	-
24	Cross street	01	-	-	-	-	-	-	01	-	01	-	-
25	Jayathilake	04	01	03	-	-	-	-	04	-	-	-	-
	mawatha												
	Total	129	58	37	15	04	06	09	68	13	11	01	36

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6.8. New Project List

Project	Marks	Priority
Centralized Water Purification Centre	272.5	1
Construction of Central Market	257.3	2
Centralized Sewerage System	247.3	3
Construction of theme park at upper part of Gregory lake.	246.8	4
Construction of Loves leap reservoir	226.0	5
Construction of international high altitude sport complex.	211.4	6
Remove deposited silt from Barrackplain reservoir and Katumana reservoir.	209.0	7
Construction of an entertainment zone reservoir near Barracplain.	192.8	8
Widen the Glenfall by pass road.	191.7	9
Widen the Barrackplain ela and remove deposited silt.	183.8	10
Widen the Unique view road.	182.8	11
Develop the hospital road as minimum width of 12meters.	181.4	12
Development of Unique view housing project.	180.8	13
Develop the drain system floors through district secretariat and Nuwaraeliya municipal council premises.	178.6	14
Development of 2 nd phase Nuwaraeliya bus stand.	178.2	15
Construction of common playground at Magasthota near Gregory lake	175.0	16
Develop the vehicle parking area of the main hospital.	172.4	17
Construction of cycle tracks and walk ways from Gregory lake zone to commercial zone for tourists.	171.7	18
Construction of walk ways for tourist at the forest boundary limit.	170.2	19
Construction of walk ways at the right side bank Nanuoya and near Park road for pedestrians.	161.9	20

Project	Marks	Priority
Relocation of houses in proposed racecourse sport complex	153.7	21
ground.		
Cable car project.	150.7	22
Construction of silt trap for Nanuoya ela.	149.1	23
Bambarakele PWD housing complex.	146.9	24
Park road shopping complex.	141.8	25
Construction of pedestrian walkways near Grand hotel road,	138.7	26
New Kandy road, Park road, Lady Maccalum road and		
Unique view road.		
Construction of silt traps for Barrakplain ela.	130.3	27
Widen of refinery for waste water purification near main	125.5	28
hospital and establish incineration for hospital waste for new		
hospital building.		
Widen of Glenfall road.	122.2	29
Construction of new entrance roadway to the hospital from	121.7	30
Lady Maccalum road.		
Widen the streams of Thalagala oya, Waterfield ela and	117.1	31
Nanuoya ela remove encroachments from the reservations		
Composting project for daily digestible waste.	114.0	32
Widen of Hadden hill road.	108.5	33
Construction of Ayurvedic medicine hospital.	103.8	34
Widen of Lady Mccalum road.	103.3	35
Construction of the silt trap for Katumana ela.	95.4	36
Construction of viewpoints at the mountain peaks of	94.0	37
Shanthipura and Single tree.		
James street housing development project.	92.8	38
Construction of new pedestrian walk way network from	92.4	39
Unique view road to Glenfall road connecting Grand hotel		
road		
Pedestrian tunnel way in front of Losan triangle.	88.4	40

And a consideration of the second and a second second and a second second

Project	Marks	Priority
Widen of Katumana ela water way.	84.0	41
Lady Macckalum rosdMc housing project.	81.0	42
Widen of Magasthota - Blackpool road project.	79.8	43
Ocean view shopping complex project.	78.3	44
Pedestrian walk way covering project in the town center.	77.7	45
Construction of children park near the Upper lake road.	75.1	46
Vegetable processing center.	73.4	47
Galways park housing project.	72.5	48
Scrub estate housing project.	71.3	49
Renovation of Boralanda playground.	68.3	50
Bambarakele estate housing project.	68.1	51
Widening of upper lake road.	65.8	52
Properly develop the Havaeliya wajiraghana playground.	62.6	53
Katumana Seethaeliya water project.	60.3	54
Widen and renovating Ruwaneliya playground.	58.6	55
Boralanda low income housing complex.	55.8	56
Widen of Jayathilaka Mawatha.	55.7	57
Widen of Baros road.	54.4	58
Widen of Sandathenna road.	54.4	59
Open Hotel school within the premises of Vocational	53.7	60
Training Authority.		
Bambarakele primary school, Floor cultivation, converted	53.3	61
into Agricuture / Livestock development associated		
vocational training centre.		
Meepilimana Senananda college plaground development.	52.9	62

Project	Marks	Priority
	50 (
Sandathenna road drain system development.	52.6	63
St. Andrews road shopping complex project.	52.4	64
Water supply project for Meepilimana and Ruwaneliya	51.7	65
zones.		
Middle income housing project 01.	48.7	66
Widening of Kanagarathnam road	45.7	67
Middle income housing projects 02.	45.1	68
Construction of floor plants and floor exhibition hall in	39.8	69
Victoria park.		
Develop the Magasthota Madduma Bandara school	35.4	70
playground.		
Develop the Kalukele primary school playground.	29.2	71

Project title	Centralize Drinking Water Purification Center- Nuwara Eliya									
Project	Provide safe and pure drinking water									
Project proposal	The project is aim to improve the quality of drinking water withreliable sources. Proposed to redevelop of existing water TreatmentPlant at Nuwara Eliya International Buddhist Center and establishment of 03 new machines for water treatment. Especially it will cover Haddonhillwater distribution zone.									
Project location	Nuwara Eliya International Buddhist Center									
Location	Province	Central	District	Nuwaraeliya						
	Divisional Secretariat	Nuwaraeliya	Local authority	Nuwaraeliya M.C.						
Boundaries	North	East	South	West						
	Nanu Oya Stream	Nanu Oya StreamBadulla- NuwaraBuddhist CenterBuddhistEliya Main RoadCenter								
Access	Badulla- Nuwara E	liya Main Road (Qu	een Elizabath Road)							
Location map										

6.8.1. Centralize Drinking Water Purification Center- Nuwara Eliya

Adjoiningl andusage (Details with map)	Commerce Commerce Commerce Commerce Cutivatio Education Estate Ho Financial Forest Grass La Graved Health Home Sh Indoor Ag Industrial Institution Open Sp Waller A	ea ial n hai pusing nd eds iniculture al ace										
Project arrang	gement											
Project type	New		Imp	roven	nent	V	Exter	nsion		La develo on	pme	nt
Project	Preserva	C	ommer	Laı	ndsca	Hist	orical	House	•	Resettlem	n C	Other
type	tion	ci	al	pin	g	-	ervati on	S		ent		7
Project modal	Economic	;						Social				v
Project aims							inking v Cubic N		y 20	30		
Project suitability	Forecaste within Gr to be prov the area. S	eate idec	r Nuwa l those	ra El popul	iya Pla ations a	nning and th	area. T at will a	herefor	e, di the	rinking wa tourism i	ater	needs
Present land ownership	U.D.A	•			Privat	e			S	tate	1	V.
Is it free of obstacles	Yes		Not		If n	ot cor deta	ncernsd ils			I		
Ownership related details	Already			hich o	owned	by Sp	orts Mii	nistry al	lloca	ated for w	ater	



Details of the survey plan.		ey plan Io.	Survey pl	an No.	Date		La	and exten	t
survey plan.		u 2061	07		17.12.2001		.ace.	ro.	20
		. 2001	07		1711212001				per
Project details									<u> </u>
Project	Short		Medium		Long term		Total	estimate	d 1
duration	(Yrs.		term		(Yrs. 3-		cost(R	s. millior	ns) 5
	less)		(Yrs.1-3)		over)				
Funding	Treasu	ry Fund	/ Foreign Fu	nd					
method									
Infrastructure f	facilities								
Historic	The ce	ntralized	d water treat	ment pl	ant is abando	ned 1	5 year	s ago due	to less
Information	mainte	enance.	The buildin	gs of th	e project whi	ch bui	lt thro	ugh JICA	funds
(If need)	can be	used fo	r further wo	rks and	treatment pla	ant nee	ed to b	e replace	again.
Zone	High	density	tourism	Compa	atible with the	e zonii	ng	Ye	S
Present positio	n	-		-	distribution				-
(With detailed		purific	ation system	and th	erefore the is	sue is	havir	g related	to that.
descriptions)									
Project cost			Activity			C	Cost R	s. Millior	IS.
	Esta	ablishm	ent of water	treatme	ent plan			50	
Approval Instit	tutions								
	Activi	Activity Institute Authorized officer							officer
Identified pro	ber treatment mechanism National Water supply								
and fix	relevan	t machir	nes	and	Drainage Boa	ırd			
	(NWSDB)								
Regulations	and	De	velopment s	hould b	e done accord	ling to	the g	uide line	s of
Condition	Conditions NWSDB								

And a design of the control a design of the control of the design of the control of the control

Project name	Theme Park – Nuw	varaeliya							
Project	Tourism Infrastructure Facilities Development International standard theme park construction for the improvement of								
Project proposal	entertainment activ	lard theme park co vities for arriving tou							
Project location		1	-						
Location	Province	Central	District	Nuwaraeliya					
	Divisional Secretariat	Nuwaraeliya	Local Authority	y Nuwaraeliya Municipal					
				Council					
Boundaries	North	East	South	West					
	Dun short cut	Balanced land		Lot No. 01 of					
		portion of		Survey plan					
		Gregory lake	Nanuoya stream	No. 5158 හි					
Access	Upper lake road –	Dun short cut							
Location									
Location map				Location					
	Legend Tracem Induso final of the owner Departure Rate Land Rate	onten Dron Land Bakk Land A Bakk Land A B		Location					
map Adjoininglan dusage (Details with	Incrementaria in anti-anti- landosse_final Down I of other release in the landos anti- landos anti- landos anti- December in the Connection in t	n NGS Colore Viega orden Dirac Lani Kask Lani Sa Dirac Bari Dirac Bari Dirac Bari Maret Lani Maret Lani Maret Lani Maret Lani Maret Lani Maret Lani		Location					
map Adjoininglan dusage (Details with maps)	Instantia Instantia	n Kiti Chine Viega onten Dirat Lani Kash Lani Sa Vietni Vietni Mont Lani Vietni Mont Lani Vietni Mont Lani Vietni Mont Lani Vietni Mont Lani Vietni Mont Lani Vietni Mont Lani Vietni Mont Lani	Extensio	Land elopment only					

6.8.2. Nuwara Eliya Theme Park



Project type	Pres	Commerc	Landsca	ni Hi	storical	Hous		Resettlem	Othe	
T Toject type	erva	ial	ng	1	eservati	s		nt	r	
	tion	141	ng	pr	on	5		III	1	
	uon				on					
Project modal	Econo		$\overline{\mathbf{v}}$			Social				
	20010		,							
Project aims	for • Imp act	Improvement of the relevant infrastructure facilities for local and foreign tourist. Improve the income generating activities in the town and employment activities. Keep up the more staying nights in the town in arrived tourists.								
Suitability of	Land a	rea located	l at the upp	er nart (of the lab	ce Greg	orv is	most suit	able for	
the project			ject for the	-		-	•			
I J J		-	fulfil the la	-				•		
Present land	U.D.		1	Private				ate		
ownership										
Is it free of	Yes		Not		If	not	Land	acquisitio	on need	
obstacles							when	on cons	truction	
					det	ails	in the	reservatio	on	
Ownership	Uı	ban develo	opment auth	ority ha	as the ow	vnership	with	transfer d	eed	
concerned										
details		~	1					r 1 .		
Survey plan details	T / NT	•	plan No.		Dat			Land exter		
details	Lot No 4026.	01 of Sur	vey Plan No	0.			12	02 Rd.	p	
Project details	4020.					F	Acre	Ku.	er.	
Project duration	n Sho	rt N	Iedium		Long		To	otal		
Troject duration	tern		erm		term	e		ted cost		
	(Yrs		Yrs. 1-3)		(Yrs.			fillion		
	less				3-			-		
					Over)					
Funding method	ł	I	T	Through	private	funds				
Approval neede	d institu									
Activities	8	Relevant institutions Authorized officer								
		U.D.A.								
		Central environment Authority								
Regulation	and	It should be compatible with the orders of No.1487/10 and								
condition	S	2017.03.05 dated, central environment authority extraordinary								
		gazette notification. And also the development planning								
		regulatio	ns of the U	.D.A. as	s well.					



8

Project title	Lovers leap reserve	oir construction									
Duciant	Lovers leap reservoir construction										
Project	The residential population of the Nuwaraeliya town forecast to the year										
Project			•	•							
proposal	2030 will be about 50000 and its daily tourist population 25,000 . For that population, needed water volume is Qu.M. 9500 to supply this storage										
			-								
Project	tank proposed to co Land portion own										
location	waterfall.		state adjoining to	, the Lovers leap							
Location	Province	Central	District	Nuwarael							
		iya									
	District	Nuwaraeliya	Local	Nuwaraeliya							
	Secretariat		Authority	Municipal							
				council							
Boundaries	North	East	South	West							
Access	Nuwaraeliya Parye	shanawatta road	or Boralanda Juno	ction							
	5 5										
Location map											
Adjoining land usage (Details with maps)											
Project Arran	gement	- 18ST 11									
U U	~	9									

6.8.3. Construction of lovers leap reservoir



Project ty	pe	Nev	V	λ	I	mprove	men	t]	Exten	tion		Land developn ent only		
Project type		eser tion	me	om erci al	I	Landscaj	ping		pres	orica l ervat on		ouse	Other	1	
Project Modal]	Econ	nomi	c		-				Soci	al			
Project Aims	t		n	 Supply the water demand of qu.m. 9500 volution of 2030. Make uninterrupted water supply to the period. 											
Project Suitabili		great com volu Ther to st	ter N mutin me i refore ore,	Nuwa ng p is 95 e it is And	araeli popul 500 c s nee prop	ya deve ation is qu.M. Pr ded to co	lopn 25, reser onstr	nent ,000. ntlyst ruct s ers l	plan For uppl store eap	nning that y wat tank waterf	area popul er vo for ba fall ne	is 50 lation lume lance	of 2030 0,000 and needed is 4500 d water w nk to bui	l daily water qu.m. volume	
Present la ownersh			D.A.		15 Wa		-	riva						N.H .D. A.	
Is it Free Obstacl		Y	es		V	No	t			con	f not cerne etails	d	N		
Ownersl related details	- 1 5								inds			1	-		
Survey p details		S	urve N	y pla o.	an	Lo	t No	•		Dat	te		Land ext	tent	
												A c. 10	Ro	per.	
Project D					ŀ		-								
Projec duratio		1	Short Ferm rs. le	1	t	Medium ærm (Yrs.1-3		\checkmark	te (Y	ong erm Vrs. 3- ver)		est	Fotal imated cost Million	200	

And a design of the control a design of the control of the design of the control of the control

Funding	Treasure	funds / Nu	waraeliya Mu	nici	ipal coun	cil						
Method												
Infrastructure f	Infrastructure facilities											
Water	Nee	ded		E	ectricit	Needed						
	Volu	ıme		У		volume						
	Exis	sting				Existing						
	Volu	ıme				volume						
Zone	Higl	n density			Is it c	ompatible	Compatibl					
	res	idential			wit	h zoning	e					
Present	For t	the constru	action of reser	voii	in this l	and, basic pla	ns are being					
situation(Detail	ed mad	e by the iri	rigation depart	mei	nt by the	proposal subr	nitted by the					
descriptions with	th mun	icipal cour	ncil.									
maps)												
Project cost		Act	tivity			Cost Rs. Mil	lion					
	Cons	struction o	of reservoir			200						
Approval need i	institutio	1										
Activity		Rel	evant Institut	tion	L	Authorized	d Officer					
Construction and	l plan	Irrigation department										
preparation												
Regulation	and	Development activities should be done under the										
condition	IS	recommendation and supervision of irrigation department										
		and national water supply and drainage board.										

And a consideration of the second and a second second second and a second second

Project title	High Altitude Race	Course Play Groun	d- Nuwara Eliya						
Project	Tourist's infrastructure development								
Project proposal	Improvement of the main ground and its related infrastructure (Development of Athletic ground, Rugger & Cricket grounds, Swimming Pool, Sports consultation, Fitness centers, and Accommodation facilities). And also relocation of low income families at Hawa Eliya.								
Project locat	ion								
Location	Province	Central	District	Nuwaraeliya					
	Divisional Secretariat	Nuwaraeliya	Local authority	Nuwaraeliya M.C.					
Boundaries	North	East	South	West					
	Udupussellawa road	Race Course ground	Badulla road	Badulla road					
Access	Badulla road								
Location map		Andiance Tract	Bun short Rd	Upper-Lake ²					

And a design of the contraction of the contraction of the contraction of the contraction of the

Adjoiningl andusage (Details with map)		L		A LA LA									
Project arrang	gement						_						
Project	New		Impro	vemer	nt		Exter	nti		La	and		
type							on			develo	opm nly	ent	
Project	Preserva	Com	mer	Lands	ca	Histo	orical	Ho	use]	Resettle	em	Othe	r
type	tion	cial		ping]	-	ervati n	s		ent			
-													
Project modal	Economic				I			Socia	ıl	V			
Project aims	This acces congestion Improve th Road way	n origir he asso usage	nated i ciated for pe	n the s l sub w destria	summe vay co	er se nditi d tou	ason ca on in th rists to	rniva ne Nu mak	al time warael e attrac	in Nuw iya tow ctive an	varae vn. id ea	isy leve	
Project suitability	This is a v very urge crowed in	nt solu	tion t	-		-				-			
Present land	U.D.A.			Pr	ivate				S	tate	N	uwarae	eli
ownership												ya M.C	
Is it free of	Yes			Not	1		If	not	L	and		quisiti	
obstacles							cone	cerns	d n	eed to l	be do	one wh	en
							de	etails	r	eservat	ion	need f	for
									c	onstruc	ction	l .	
Ownership related details	R	oad wa	ay own	nership	o with	the	municij	pal co	ouncil l	Nuwara	aeliy	a	
Details of	Survey	plan	Sur	vey pla	n No.		Date			Land	exte	nt	
the survey	No												
plan.									ace	e1	o.	p	ber
Project detail	s												
Project	Short	\checkmark	Mediu	ım		L	ong		Т	otal		15	
duration	(Yrs.		term			te	rm		estii	nated			
	less)		(Yrs.	1-3)		()	rs.						



And a consideration of the second and a second second second and a second second

					3-		cost milli	`		
			1'	<u> </u>	over)	1.0				
Funding		Nu	waraeliy	ya munic	ipal coun	cil fu	nds/treas	ury		
method										
Infrastructure	facilities									
Water	Needed v	volume	-	Electric	ity	Ne	eded	-		
						vo	lume			
	Existing	volume	-			Ex	isting	-		
						vo	lume			
Zone	High de	ensity tou	rism	Compa	tible with	n the	zoning		Yes	
Present position	on	Prese	ently less	s usage o	f this roa	d due	e to 5 met	er widtl	h.	
(With detailed	1									
descriptions)										
Project cost		Act	ivity				Cost Rs.	Million	S .	
	F	Road way	expansi	on			1	0		
	Pedestria	Pedestrians ways and area landscape 05								
	Total 15									
Regulatio	ons	Should	be deve	lop the r	oad with	mini	mum acce	ess of 9	meters.	

6.8.5. Construction of recreational area at Barrack Plain Reservior

14

And a design of the work & about the man work & the state and the second as

Project title	Construc	tion of rec	reational area	a at Barrack P	lain Reser	vior					
Project	Tourist's	Tourist's infrastructure development and preserve the water reservation areas									
Project proposal	75 % of the reservoir filled with mud and garbage at present. The project aims to remove of those sedimentation, mark the reservation area and develop it as recreational area. As well as widen the sub streams of the reservoir and landscaping the reservations will be proposed with the project.										
Project locati	on										
Location	Province	(Central	District		Nuwaraeliya					
	Divisiona Secretaria		Nuwaraeliya	Local author	ority	Nuwaraeliya M.C.					
Access	Hawaeliy	a- Moon Pl	ain road and U	Jdupussellawa	road						
Location map											
Adjoiningl andusage (Details with map)	Lagend Pay Lasi Pay Lasi Construit Construit Construit Construit Paracel Par	Other Pars Pars									
Project arran	gement										
Project type	New √ Improvement Extention Land Improvement Improvement Improvement Improvement										
Project type	Preserva	Commer cial	Landscapi ng	Historical preservati on	House	Resettlement					



And a construction of the second and a second second second a distribution of the second second

Project modal	Econo	omi	c		١	/				S	ocia	ıl			
Project aims	 La Established 	ands abli	scap shn	oin nen	g of ront of to	eserv ouris	vatior m ree	n area. creatio	nal	e of the activiti reams o	es.		vior.		
Project suitability	arriva the na are th	ls in itura ie n opn	n 20 al so naim nent	030 ens n fa t io) and itive (actors dentif	incre envir wh	ease s conm ich a	staying ent pre iim to	g da ser ful	ys upto vation a fill thro	4 n and c ough	ights v leveloj 1 the p	vithir omen olan.	the at t in pro Therei	tourists' rea. Also oper way fore, this be done
Present land	U.I						Pri	vate				S	tate	N	uwaraeli
ownership		J. A	•				1 11	vale					late		a M.C.
Is it free of	Yes	S	γ		Not			If not	con	cernsd o	detai	ils	-		
obstacles															
Ownership related details	Divis	sion	al S	Sec	ratari	ate a	nd Ir	rigatio	n D	epartm	ent				
Details of the survey	Su	rvey No		an	Su	irvey	/ plar	n No.		Date			Lan	d exte	nt
plan.												20 ac	e	ro.	per
Project detail	s										1				-
Project duration	Sho 1	rt (Ness)			ter	ediun m rs. 1			()	Long term Yrs. 3 - over)	V	e	Tota stima cost(l nillio	nted Rs.	25.0
Funding me	thod			1	N	uwa	raeliy	ya mur	nicip	pal cour	ncil	funds/t	reasu	ıry	
Zone	Recre	atic	nal	an	d Sen	sitiv	e zor	ne		Match	wit	h the z	one	Yes	
Present positi (With detaile descriptions)	d T d														

And a design of the work a design for a second the first a design of the

Project cost	Activ	vity	Co	st Rs. Millions.	
	Removal of sedime	ent		150	
	Landscape and imp	prove the		50	
	tourism facilities				
	Widden of associa	te streams and		30	
	preservation				
	Silt trap		20		
Approving In	stitutes				
А	ctivity	Instit	ute	Authorized person	
Preparatio	on of plans and	Irrigation De	epartment		
remov	ve sediment				
Landsca	pe plans and	UDA/ N	EMC		
development	of reservation area				
Regulation	s and conditions	Development she	ould be inaccor	ding to the insructions	
		and inspection of	f Irrigation Dep	partment and UDA	

Project title	Glainfall Sub Road	Expansion Project.										
Project	Tourist's infrastruc											
Project		PP										
proposal	one of main access road expansion pro- due to the large tour facilitate to the roa Badulla road direct Anagarika Dharman the people who nee can get the access center. This road als center for their dest	This road connecting to close by Glenfall road from the Badulla road that is one of main access road to the town as a sub way. This accesses is specially road expansion project is identified to lessen the traffic congestion originated due to the large tourist crowed arrival in the summer season. This accesses road facilitate to the road way to the people who need to enter the town from Badulla road direction and enter Glenfall road via Grand hotel road and evade Anagarika Dharmapala roundabout and the town center to Kandy road and also the people who need accesses to reach to Badulla road from Kandy direction can get the access from Sampath bank to Badulla road avoiding the town center. This road also easy access to pedestrians who need to evade the town center for their destination, for that it is proposed to make pedestrians path ways parallel to the road with attractive landscaping.										
Project locati	ion											
Location	Province	Central	District	Nuwaraeliya								
	Divisional	Nuwaraeliya	Local authority	Nuwaraeliya								
	Secretariat			M.C.								
Access	Badulla road											
Location map												
Adjoiningl andusage (Details with map)	Taperd Impute Impute<											

6.8.6. Nuwara Eliya Glainfall Sub Road Expansion Project.

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And a design of the second a design for a second a first de administration of

Project arrang	gemen	t												
Project	New	,		Imp	prove	ment		Ext	enti			Lan		
type								0	n			develop	ment	
												only	y	
Project	Prese	erva	Cor	nmer	La	ndsca	Histo	orical	He	ouse	R	esettlen	n Oth	er
type	tion		cial	l	piı	ng	prese	ervati		s	e	nt		
							C	n						
Project mo	dal	Eco	nom	ic					Soc	ial				
Project	This	acces	s wag	y pro	ject c	an be in	nplem	ented	as to	lessen	th	e traffic		
aims	conge	estion	ı orig	inate	d in t	he sumr	ner se	ason c	carniv	al tim	e iı	n Nuwar	aeliya.	
	Impro	ove th	ne ass	sociat	ed su	b way c	conditi	on in	the N	luwara	eli	ya town	•	
	Road	way	usag	e for	pedes	strians a	ind tou	ırists t	to ma	ke attr	act	ive and	easy lev	vel.
Project	This	is a v	ary n	leede	d proj	ject to in	mplen	nent w	vithin	next t	wo	year tin	ne as it	is a
suitability	very	urgei	nt so	lutior	n to l	essen tl	he tra	ffic co	onges	stion w	vhe	n the n	nost tou	rist
	crow	ed in	the to	own.										
Present la	nd	I	U .D. A	4.		Privat	te			St	ate	e	N.E M	C.
ownershi	р													
Is it free of	Ye	s	Ν	Not		I	f not]	Land	acquis	siti	on need	to be de	one
obstacles						con	cerns	r E	when	res	erv	ation	need	for
						de	etails		const	ruction	1.			
Ownershi	р		Roa	d way	/ own	ership v	with th	ne mui	nicipa	al cour	ncil	Nuwara	aeliya	
related deta	ils													
Project detail	.S													
Project	Sh	ort		Me	dium		L	ong			То	tal	15	
duration	(Y	rs.		terr	n		te	erm		es	tim	nated		
	les	ss)		(Yr	s. 1-3	3)	()	rs.		С	ost	(Rs.		
								3-		m	illi	ons)		
							0	ver)						
Funding me	ethod				Nuwa	raeliya	munic	cipal c	ounc	il fund	s/t	reasury		
Zone	-	gh de	ensity			•		-		zoning			Yes	
		-	5				± .			6	-			
Present posit	ion (W	/ith d	etaile	ed	P	resentlv	less u	sage (of this	s road	du	e to 5 m	eter wid	th.
descriptions)						j								
Project cost				Activ	vitv					Cost F	Rs.	Million	s.	
- 10,000 0000		R	load		expan	sion				20001		0		
	Ped					ea lands	cane							
	- I CU	coura	.113 W	ays a Tot			scape 05 15							
Regulati	ons		C h			valon th	a root	l with	mini	mum		$\frac{5}{2}$ ess of 9	metoro	
Regulati	0115		SII	ouiu	Je de	verop in		ı witti	1111111	mum a	icc	55 01 9	meters.	



And a design of the second and a second second second a design of the second se

Deve in et	Decel			Dece Chain	1 64.4	- 11		
Project Name	Develop	oment of Nu	wara Eliya	Bus Stan	id– Stag	e II		
	Decile			£				
Project		oment of trai						
Project	Develop	oments of	existing b	ous stand	l surfac	e area	and pedestr	ian path
Proposal	improve	ement near to	the stand.					
Project	Bus star	nd of Nuwar	a Eliya					
location								
Location	Pro	ovince	Cen	tral	Di	istrict	Nuwar	aeliya
	Div	isional	Nuwar	aeliya	I	local	Nuwar	aeliya
	sec	retary			aut	thority	Municipa	l Council
Boundaries	N	lorth	Ea	st	S	outh	We	est
	Centra	al Market	Nanu o	ya Ela	Victo	oria Park	Badull	a road
	1	land		•				
Access	Badulla	Road	1		1		1	
Location map		e card						
Adjoining land usage (details with maps)	Rua Science - Text Veci Veci	County County						
Project arrang	gements							
Project type	New	Imp	rovement	√ I	Extensio	n	Land developmen	t only
Project type	Preservatio	on Commerci	al Landscap		orical rvation	Houses	Resettlement	Other
				r ····				

6.8.7. Development of Nuwara Eliya Bus Stand– Stage II



Project	Ec	onom	ic			-		Social						
Modal														
Project aims	1.	Impr	ove the	e surfa	ace	area of the	ne bus	stand						
	2.	Man	agemen	nt of b	ouse	s in prop	er mar	nner.						
	3.	Deve	elopmei	nt of p	pede	estrian fa	cilties.							
	4.	Drai	nage In	nprove	emr	nt								
	5.	Estal	blishme	ent of	eco	- friendl	y lands	scape						
Project	This p	roject	aims to	o impr	ove	e of publi	c trans	portation	and there	efore	congestion			
suitability	of the	bus	stand n	need t	to t	be decrea	se. It	will hel	p to creat	te us	er friendly			
	envirn	emnt.	It will	hope	to r	educe pri	vate tr	ansportat	tion and ot	rienta	tion to use			
	public	trans	portatio	n by c	com	muters.								
Present Land	U.D.A	•				Private			State		N.H.D.A.			
Ownership														
Is it free of	Yes			No	ot			If not co						
obstacles								deta	ils					
Details	Land i	s belo	ong to R	DA a	nd	Division	al Secr	etory						
related to														
ownership														
Project details	r					· · · · ·		- <u>1</u> <u>1</u>			1			
Project	Sho	rt	M	ediun	n		Long		Total		246			
duration	teri			·m	\sqrt{te}			e	stimated					
	(Yr		()	(rs. 1	-3		(Yrs.		(Rs.Milli	on				
	Les	s))			3-							
					_		over)							
Funding met				nds / I	Nuv			ipal cour		~				
zone	High c	lensity	y mix			Is it	-	tible wit	h the	Co	ompatible			
							ZO	ning						
D (NT	D1	1	. 1.	1	• .		1	1 6 4 1	• , •	·			
Present		-					1				t. There is			
position											due to the			
	-				-						ness of the			
	-			e aur	acti	on of th	e com	muters v	vas decrea	ased	due to the			
Project cost	above	situat	ions.		pove situations.									
PERMAPE COST			A - 4º					2	CostRs. Millions					
I Toject cost	Trans in in		Activ		o # -			С		illion	S			
1 Toject cost	_		nt of su	face a				С	25	illion	S			
Toject cost	Develo	opmer	nt of su	face a		u bath and		C		illion	S			
Troject cost	Develo bridge	opmer	nt of su	rface a destria				C	25	illion	S			



Project Name	Public ground impr	ovement at Lake G	regory- Nuwara Eli	ya		
Project	Landscaping Impro	vement				
Project	Empty ground area	a near to the Lake	Gregory which o	wned by UDAis		
Proposal	proposed to develop					
Project	Bus stand of Nuwar					
location						
Location	Province	Central	District	Nuwaraeliya		
	Divisional	Nuwaraeliya	Local	Nuwaraeliya		
	secretary	, and the second s	authority	MC		
Boundaries	North	East	South	West		
			2			
	Race Course	Nanu oya Ela	Lake Gregory	NE Lake Club		
	Ground	, in the second s		& stream		
Access	Race Course road					
Location map						
A 1	Legend	-	4	3-6-		
Adjoining		E featurese	- 2.2	See 1		
land usage	Landuse_final Grout	Geograph Surger	Kard In-	A A A A A A A A A A A A A A A A A A A		
(details with	LP_TP_La_2 III Hora Staty	BCS Children Village		CAR .		
maps)	Daw Land Mills Advantal	SoutLast		Car.		
	flattup Anna 📷 stattutorial		1000			
	Centrey Contraction	Surger United States	44	East		
	Cultures Pet	Vegeture				
	Etilate Havang Pay Ground	Telepiston Telepiston	2 SAL	1977		
	Financial Custors	Matter Area	The care	-22		
	Fast Nippe	22	and the second	NE		

6.8.8. Public ground improvement at Lake Gregory- Nuwara Eliya



Project typ	ane	gements												
rojectiyp	e	New			In	nprove	ement		Exte	ension		Land Deve.		
Project	P	reservati	io	Co	mme	er La	ndscap	Hist	orical	Hous	e R	esettlen	ı	Ot
type		n		(cial		ing	pres	ervati	S	ent			he
								0	on					r
									Social			[,	
Project		Eco	ono	omic			-				N			
Modal		1	T			4 - 6	-1.1'		:1:4	<u> </u>	•			
Project aim	15			-		-	ublic gro ourists ac		•	for com	imunii	ty		
suitability		Lake C the Int	Gre ern	gory atior	and a nal H	also w igh A	r public ill be los ltitude T ns to de	st the j rainin	playing g Cent	area di er at R	ue to c ace C	construct	ior	n of
Present La	nd	U.D.A					Priv	ate			Stat	e		
Ownership														
Is it free of obstacles		Yes		٦		No	ot		If	not coc detai		1		
Details related to		Urban	De	evelo	pmer	nt Aut	hority							
ownership														
ownership Survey plai	n	Surv	vey	plan	1		Lot		Date	:	La	nd exte	nt	
	n		vey No	-		No.	Lot		Date		La	nd exte	nt	
Survey plan details			-	-		No.	Lot		Date	(La)2 Acr	Ro	nt	P
Survey plan details Project deta			No	-					Date	()2 Acr	Ro		•
Survey plan details Project deta Project		Sho	No	-		[ediun	1		ong	()2 Acr T	Ro		P
Survey plan details Project deta		Sho	No ort m	-	M	lediun rm	n	te	ong erm	()2 Acr T esti	Ro		•
Survey plan details Project deta Project		Sho terr (Yr:	No ort m s	-	M	[ediun	n	te (Y	ong erm črs.	()2 Acr T esti	Ro		•
Survey plan details Project deta Project		Sho	No ort m s	-	M	lediun rm	n	te (Y	ong erm Zrs. 3-	()2 Acr T esti	Ro		•
Survey plan details Project deta Project duration Funding		Sho terr (Yr:	rt m s s)	•	M te ()	lediun rm	n	te (Y	ong erm črs.	()2 Acr T esti	Ro		•
Survey plan details Project deta Project duration		Sho terr (Yrs Les	No rt m s s)	fund	M te (Y s	lediun rm	n √ 3)	te (Y	ong erm (rs. 3- ver)	()2 Acr T esti (Rs.)	Ro		

And a design of the second and a second second second a design of the second se

Present position	There is had due to the cleanliness	Nuwara Eliya bus stand is the main transportation hub of the district . There is having issues such as less efficiency of that has been decreased due to the congestion and lack of a pleasant environment due to lack of cleanliness of the premises. Therefore attraction of the commuters was decreased due to the above situations.								
Project cost	Activities CostRs. Millions									
	Constructio	on of play grou	ınd		100					
Approval Institu	utions									
Activity			Institute		Authorized					
					Person					
Preparation of	plans and o	construction	UDA and Spo	orts Ministry						
Rules and Reg	ulations	Construction	should be don	e according to	the instructions					
		and guidenes	s of UDA and	Sports Ministr	У					

Project Name	Housing Developm	nent								
Project	Bambarakele PWD	Housing Improve	ement							
Project proposal										
Project locatio	n									
Location	Province	Central	District	Nuwaraeliya						
	Divitional secretary	Nuwaraeliya	Local authority	Nuwaraeliya M.C.						
Boundaries	North	East	South	West						
	Kandy Rd	Nanu oya stream	MC housing	Stream						
Access	Kandy Road			-						
	stream									
Location map			Pwd houses							

6.8.9. Nuwara Eliya Bambarakele PWD Housing Development

25

And a design of the second address for a design of the des

Land usage adjoining area(Detail with maps)	Legend Tourses Ladose, Snal of drar state LP_TP_Le_2 Rescard Robot Const	Gase Land Google Film Film Film Film Film Film Film Film	Ficado -	Ale & Duese Alexen: Volage and and and and and and and and and and	- Provide and the second se				1 SANA AN USA	
Project arrange	New	Imn	rouomo	nt		Extenti	on	T	and	
Project type	INCW	mp	roveme	ill	Ň	Extenu		devel		ent
									nly	CIII
Project type	preserva	Comm	er Lai	ndsca	Hist	orical	Housi	Resettl	-	oth
110,000,000	tion	cial	pin			ervati	ng	ent	••••	er
			1	0	-	on	0			
Project	Economic	al					social			
model										
Aims of the	1. Wa	ater supp	ly syste	m impi	oven	nent thro	ough pre	serving Na	anuo	ya
project								ater sourc		
		-	-					hese hous		
			attracti	ve zone	e of th	nis area	as it is m	ain access	s are	a to
		town.							far	
		velopmei			ngn v	alueu la	inds near	the town	IOF	
Suitability of	Make crea				ckor	ound fo	r the ar	rived tour	ist t	o the
project	Nuwaraeli				-					
1 5	to tourist	-				-				
	aims due	to not p	ossessir	ng of h	eredi	tary arc	hitectura	l pattern	of h	ouses
	within this	area nea	r the m	ain acc	ess ro	ad.It is	needed t	o upgrade	the s	social
	level stan	dard from	m low	level l	iving	condit	ion in t	his area.	Ther	efore
	considerin	g the abo	ove fact	ors idei	ntify	this proj	ect to in	plement.		
D (1 1				р.				Ct. t	N T	UD
Present land	U.D.A.			Priva	ate			State	N	.H.D.
ownership Is it free of	Yes	$\sqrt{1}$	Not	. [Ifnot	related			А.
Obstacles	105	N					tails			
Ownership			Hou	sing D4	velo		authority	<u> </u>		
details			1100	Sing D			sumonty			
uetans										

And a consideration of the second and a second second second and a second second
Project details												
Project duration	Short	N	Iedium		Ι	Long		To	tal	100		
	term(te	erm		t	term		estimate	ed cost(
	Yrs	(Yrs 1-3		(Yrs		Rs. Mi	llions			
	less))			3-						
						over)						
Investment	Both	private a	nd state bi	latera	l fur	nds						
System												
Infrastructure facili			-									
Water	Need				Ele	ectrycit		eded				
	volu				У			lume				
	Exis	e						isting				
	volu	me				1		lume				
Zone								patible				
	_						ith zo	0				
History(If need)			low income			ent was	s impr	ove on 20	005 by th	ie		
		-	rban devel	-								
Present	50		milies livi							lled		
condition			before abo	ut 60	yea	rs as a						
Project cost	Activ	•					(Cost (Rs.	Mn)			
			of House			85						
			of Stream			10						
		lscaping				10						
Institutions approve	ed											
Activities		-	levant inst				1	Authoriz	ed office	er		
Road reservation			elopment .		ority	7						
Stream improveme		Divisional Secretory										
Development		National Housing Development				ent						
houses		Authority	y									

6.8.10. Pedestrians walk ways And Foot cycle ways construction

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And a design of the second a design for a second a first de administration of

Project	Greenbelt of Nanuo	ya Stream										
Name												
Project	Nuwaraeliya Landso	cape Development										
Project Proposal	Construction of pedestrian walk ways and foot cycle ways as an environment friendly transport medium from Gregory lake entertainment zone to high density mix zone and entertainment zone 01 and 02. And also in related natural landscape views improvement in the eco system.											
Project location		From Gregory lake along the Nanuoya to town center and then up to town center to Bambarakele area.										
Location	Province	Central	District	Nuwaraeliya								
	Divisional secretary											
Access												
Location map												



Project arrang	gements											
Project type	New	$\sqrt{1}$ Im	provement		Exte	nsi		Lan				
					on			develop				
								only				
Project type	Preserv	Comme		Historica House		e l	Resettle					
	ation	cial	ping		l s			ment	he			
				-	ervat				r			
-			1	io	on							
			\checkmark									
Project	Econo	omic	-		i	Social			\checkmark			
Modal												
Project aims		-	ople to use the	envir	onment	friend	ly gree	en transp	port			
		thods.										
		2. Inter connect the all entertainment zones parks in the town, and										
		connect the playground and commercial zones by the pedestrians										
		•	nd foot cycle	•		N T						
			environment				•					
		prove the trists.	needed walki	ng and	100t Cy	cie rac	innes	for the				
			Nonuovo stro	om roo	ormatio	na						
Project			Nanuoya stre this develop				ha trar	nont n	athoda			
suitability			e of system b	-				-				
suitability	0 0		for tourists	•		•						
		e	well. Throug				-					
	-		vironment frie			-						
			constructions									
			public commo						Jucuit			
Present Land	U.D.A.		Priv				Sta	ate	N.H.D.			
Ownership									A.			

And a deserve the second a second s

Is it free of	Yes		Not			Ι	f not			I	
obstacles						CO	cerne	d			
							etails				
Details	Land is b	elong to	RDA and I	Divisio	onal S	Secret	ory				
related to											
ownership	~		1		-						
Survey plan	•	Survey plan Lot Date								nd exte	nt
details	No).	No.							D	
								Ace	••	Ro	Pe
Developed also de la											r.
Project details Project	Short	1	Medium		T.	ma		r	Fot :		246
duration	term term $$					ong rm				al ed cost	240
uuration	(Yrs		(Yrs. 1-3	v		rs.				llion	
	Less))			3-				mon	
	 (55))			ver)					
Funding	Treasury	funds /	Nuwaraeliy	a mun		,	ncil.				
method	5		5		1						
zone	Entertainment zone/sensitive Is it compatible Compatible										
	zone	/ High	density miz	x		with	n the z	zoning	g		
Present	No availa	able of f	oot path and	d cycli	ng tr	act Al	long t	he Na	nuo	ya strea	m and
position	main roa	-	e for the pro	oject is	avai	lable.					
Project cost			tivities				Co			illions	
		-	servation						00		
	-		destrian wa	y				1	00		
	developn		C· · ·						10		
A	Landscap		fication						16		
Approval need	ea institu	tion	Relevan	t in ati	tutio					uthoriz	ad
Activity			Keleval	it msu	iuuo)[]			A	officer	
Plan preparation	1 and 1	Irhan de	evelopment	author	ity/1	Irrigat	ion			oncel	
construction			ent and Nuv		•	-					
construction		council.		, ui ue ll	yu m	unut	Jui				
Regulation and			e done the	develo	pme	nt acti	vities	under	the	2	
conditions			endation and		-						nd the
			velopment	-			8		1		
	urban de verophient authority.										

Project Title	Create footpaths along the forest margins of Toppass and Piduruthalagala												
roject mit	mountains	the forest margin	ins of roppuss and r	aarunnagana									
Project	Tourist's infrastructure	facility develop	oment										
Project	Creating footpaths alor	ng the forest ma	rgins of Top Pass ar	nd Piduruthalagala									
Proposal	mountains. The project	-		-									
	main objective of the p	roposed footpath	is is to protect forest	cover from human									
	interventions and it wi	interventions and it will act as barrier. This is basically only for pedestrian											
access and the main tourist's facility improvement project													
Project location													
Site	ProvinceCentralDistrictNuwara Eliya												
	Divisional	Nuwara Eliya	Local Authority	Nuwara Eliya									
	Secretariat Division			MC									
Boundaries	North	East	South	West									
	Forest area	Seethaeliya	Residential zone	St. Andrews									
				Road									
Access	Badulla road												
Site Plan													
Nearest land use (with descriptions)	Logend Taransi Landase, final ori otor unarr LP_TP_LA_2 Res (ant Res (ant) Res (ant Res (ant Res (ant) Res (ant Res (ant) Res (ant Res (ant) Res (ant Res (ant) Res (ant)	Hanaanna Hanaanna Haan Haan Haan Haan H											
		31											

6.8.11. Create footpaths along the forest margins.

And a second and a second a se

Project list														
Project type	New		Im	provei	ment		Collect	tin		Land				
							g			developm	ent			
Project	Conser	vatio	com	lar	ndscap	Arc	heolo	Ho	usin	Resettle	Other	r		
category	n		mer	c ing	3	gi	ical		g	ment				
			ial											
-														
Projecttype	Econor	nic		·				Socia	l	\checkmark				
Project	1. Pr	otectio	on of n	nain ui	nique cl	naract	er of for	rest ra	ange					
Objectives	2. Fc	ot pat	hs act	as bar	rier to c	ontro	l humai	n inte	rventi	ons toward	s to the			
	fo	rest ar	ea											
	3.Fa	3.Facilitate better experience for people who prefer to walk												
Project	When a	Then considering the forest coverage of the area during the periods of 2010												
proposal		d 2017, can be identified it has been gradually decreased. Therefore, forest												
	cover a	ver as the unique feature of Nuwara Eliya essential need to protect for the												
		ture. Since, the plan identified that the strategic actions which are direct to												
	-	otect forest stripe will be more applicable than introducing new rules and												
	0	egulations. Thus, the project will initiates by connecting tourism with												
	environ	ment	aspect	•										
Present land	UD	UDAPrivateGovernment $$												
ownership														
Free from	Yes			No)		If no,	-	e					
obstacle							descri							
Ownership	Ownee	d by D	ivisio	nal Seo	cretaria	t and 1	Forest C	Conse	rvatio	n Departme	ent			
details					r									
Survey plan		Survey	y plan	no		Ι	Date			Land ext				
details									Α	R	P	•••		
Project details			, ,											
Project	Short	t N		edium		L	ong			otal				
period	term			m (1-		te	erm(estim	ated cost				
	(Abov	'e	3Y	(ears)		ał	pove		(R	s Mn)				
	1 year	;)					3							
							ears)							
Funding			Т	reasur	y /Nuw	ara El	liya Mu	nicip	le cou	ncil				
mechanism														
* *														
Infrastructure	-			r		r		r						
Infrastructure Water	Requi	red				Ele	ctricit	Req	uired					
	Requi capaci	red ity				Eleo y	ctricit	capa	acity					
	Requi	red ity	pacity				ctricit	capa	-					

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And a construction of the second and a second second second a distribution of the second second

Zone	Forest	Į			Does match with	yes			
					zoning plan				
History									
Project cost		Activities			Cost				
					25				
Relevant author	orities for ap	proval	S						
Activities		Relevant authorities							
Identification of	of the	Forest Conservation Department, Urban Development Authority,							
project zone		Nuwara Eliya Municipal Council							
Confirmation	of land	Nuwara Eliya Municipal CouncilDivisional Secretariat Office,							
clearances		Nuwara Eliya							
Construction o	of foot	Nuwara Eliya Municipal Council							
paths									
Compensation	for	Nuwara Eliya Municipal Council							
private land ov	wners that								
falls for the pro	ojects								
Cloture of fina	al stage of	Nuwar	a Eliya Munic	cipal \overline{C}	ouncil				
the project									



Part II DEVELOPMENT ZONES AND ZONING GUIDELINES



CHAPTER 07- LAND AND BUILDING DEVELOPMENT STRATEGY AND REGULATIONS

7.1. Background of the Zoning Plan.

New technology and scientific methodology applied for the introduced zoning plan by the Nuwaraeliya greater development plan. It is need to consider the development trends in the areas in future 10 years of time, considering interconnected areas, and specially pay more attention on preserving environment sensitivity of the areas while enforcing development control activity process. Basically follow the zoning density methodology based on the zoning areas in the development plan. In that process get the existing land use pattern into the systematic way and control its intensity. For that completed the analysis of Environment sensitivity study, Livability analysis and Development potential analysis. (Annexure 01)





Map 7-0-1: Zoning Plan

7.1.1. Zoning Plan

Contraticity for which

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A contrate to a descent

Zone	Zone	Zone colour
No.		
01	Low residential density agricultural zone 1,2,3	
02	Forests 1,2,3,4,5,6,7,8	
03	High density mix	
04	High density tourism	
05	Low density residential 1,2,3,4,5,6,7,8,9	
06	Medium density mix 1,2,3,4,5,6	
07	Medium density special zone	
08	Medium density tourism zone	
09	Entertainment zone 1,2	
10	Entertainment zone 3,4	
11	Entertainment zone 5	
12	Environmental sensitive zone	
11	Tea cultivation	

Table 7.0.1: Zones and zone colours



7.2. Zoning Factor

7.2.1. Form 01- Table of Permissible Floor Area Ratio for zones

Table 7.0.2: Form A - Permissible Floor Area Ratio

						Fo	rm A -	Permissi	ble Flo	oor Ar	ea Ratio)									
	Zone f	actor	= 0.50 -	0.74	Zon	e fact	or = 0.	75-0.99	Zo	ne fact	tor = 1.0	0-1.24	Zoi	ne fact	or = 1.2	25-1.49	Zoi	Zone factor = 1.50-1.74			
	Minir	num H	Road Wi	dth	Minimum Road Width				Minimum Road Width			Minimum Road Width				Minimum Road Width					
Land extent (Sq.M)	7m	9m	12m	15m or above	7m	9m	12m	15m or above	7m	9m	12m	15m or above	7m	9m	12m	15m or above	7m	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	1.9	2.0	2.2	2.3	2.4	2.4	2.6	2.7	2.8	
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	2.7	2.2	2.7	3.0	3.3	2.6	3.2	3.6	4.0	
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	2.8	2.3	2.8	3.2	3.4	2.7	3.3	3.8	4.2	
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	3.0	2.4	3.0	3.4	3.5	2.8	3.4	4.0	4.5	
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	2.6	3.0	3.6	4.0	3.1	3.6	4.3	5.0	
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	3.6	2.7	3.1	3.8	4.5	3.2	3.8	4.6	5.5	
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	4.0	2.9	3.4	4.2	5.0	3.4	4.0	5.0	6.0	
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	4.2	3.0	3.5	4.4	5.4	3.5	4.2	5.2	6.5	
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	4.7	3.1	3.8	4.7	5.8	3.6	4.4	5.5	7.0	
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	5.0	3.2	4.0	5.0	6.2	3.7	4.6	6.0	7.5	
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	5.3	3.3	4.3	5.5	6.6	3.8	4.8	6.3	7.7	
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	3.5	4.5	6.0	7.0	4.0	5.0	6.5	8.0	

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- 1. Floor area allocated for parking facilities are not calculated for FAR
- 2. Above Floor Area Ratio shall not be applicable for the zones where number of floors or FAR indicated under the zoning regulations
- 3. Above Permissible FAR may be restricted under the development plan based on the slope of the land

0° - 10°	- Unlimited
11°- 20°	- 75% from FAR
21° - 30°	- 50% from FAR
31° - 45 °	- 35 from FAR
Above 45°	- Not approved for the development

4. Clearance shall be taken from National Building Research Organization for the lands having slope morethan 110

* FAR more than or equal to 10.0 shall be permitted only for the roads having minimum of 12m (from road center) Building Line, if not maximum FAR shall be limited to 9.0

A colored to A from

7.2.2. Form 02 - Number of Floors for 03m & 4.5m Wide Roads

	Form B - Number of Floors for 3.0m & 4.5m wide Roads												
	Minimum		Maximum Number of Floors										
Minimum Road Width	Site Frontage	Plot 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)							

Table 7.0.3: Number of Floors for 03m & 4.5m Wide Roads

1. Number of floors are indicated including parking areas

2. Number of units allowed for each road shall not be changed

3. * Where no plot coverage specified under the zoning regulations

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7.2.3. Form 03 - Setbacks

Table 7. 0.4: Form C - Setbacks & Open Spaces

	Form C - Setbacks & Open Spaces													
		Plot Co	verage*	Rear S	pace (m)	Side Spa	ce (m)	Light W	Well for NLV					
Building Height (m)	Minimum Site Frontage (m)	Non Residential	ential Residential is taking this end		When NLV is taking this end	When no NLV is taking this end	When NLV is taking this end	Minimum width	Minimum Area					
less than 7	6	80%**	65%	2.3m	2.3m	-	2.3m	2.3m	5 Sq.m					
7 less than 15	6	65%	65%	3.0m	3.0m	-	3.0m	3.0m	9 Sq.m					
15 less than 30	12	65%	65%	4.0m	4.0m	1.0m and 3.0m	4.0m	4.0m	16 Sq.m					
30 less than 50	20	65%	65%	4.0m	5.0m	3.0m both side	5.0m	5.0m	25 Sq.m					
50 less than 75	30	50%***	50%***	5.0m	6.0m	4.0m both side	6.0m	6.0m	36 Sq.m					
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

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7.3. Zoning & Common Guidelines

The following regulations are effective as a general Guidelines of this plan.

- 01. The planning and building regulations applicable to any development work is regulated the Gazette Notification dated 01st August 2022 and No. 2291/07. The said legalized development regulations also apply to the Greater Nuwara Eliya Development Planning area of Nuwara Eliya Municipal Council limits and Part of the Nuwara Eliya Pradeshiya Sabha limits.
- 02. This development plan is enforced under the basic instructions of divisional development plan of national physical planning department notified by the National Physical Planning Department in due cause.
- 03. Any location or property should be used for specified use when it is defined to use said activity in the development plan.
- 04. Urban Development Authority has the authority to take decision for the development activity when it not covers the development plan regulations.
- 05. Though these regulations are mentioned in any form, authority has the right to make use of the plot of land, do any kind of development activity, prohibit or limit or relaxing the regulation or introducing new regulation to fulfill the aims of the development plan.
- 06. When in the land portion is located within the two local authority areas/within two Grama Niladari Divisions, and said land portion is considered to be owned to accessible local authority or Grama Niladari Division. When in the land portion is accessible by two local authority areas or two Grama Niladari Division, then they said portion is considered to be owned to the main road accessible local authority or Grama Niladari Division. And also these two roads are in the same width, and then it belongs to the large portion of land area located local authority or Grama Niladari Division.
- 07. If the any use incompatible with the legally zoning use when the development plan regulation enforced date, said use is not permitted by the extension of period or its building extension or its machinery dispersing or extension of adjoining land portion or for any kind of project activity. In addition to that the proposed land or building is implied not favorable to continue further it can be given order to stop the incompatible use.
- 08. It should not be obstructed accordingly zone approved usages when the property or location is not specified for special use.
- 10. If the any land portion is located in between the two zones, that land portion is considered to be belongs to the accessible zone area. And also any land portion is accessible from two access by each zones and that land portion is belongs to the main

accessible zone area. If the land portion accessible two roads are same width then the said land is considered to be belonging to large portion of land located zone.

- 11.Mostly shown boundaries in the zoning map are considered basically roads or sub roads or railway roads or water ways. When those physical boundaries are unavailable then it has to be considered the zoning boundary in the development plan as according to Decimal Degree in the Google Earth based on by the X and Y coordinate numbers.
- 12. Establish the reservation or barrier zones for the protection and continuing of environment background of specific location, has the right to the urban development authority to take final decision.
- 13.Special approval should be obtained from the Authority for construction of hazardous toxic pollutants or projects which have implications for forests and ecosystems.
- 14. When in the complication situation arise regarding the boundaries of the zones, such situation urban development authority has the right to take final decision.
- 15. Special permission must be obtained from the Authority for projects and constructions that have a detrimental effect on hazardous toxin industries or forest and ecosystems.
- 16. When a land or a plot of land is allocated for a cemetery, approval of the Urban Development Authority should be obtained.
- 17. Where a plot of land or home is reserved for a specific use, no one can change the use of the land. But on the recommendation of the Planning Committee, with the approval of the Chairman of this authority, the local authority may consider modifying these if the following matters are completed.
 - i.Such facilities should not be obstructed by facilities in the area ii. Such uses should not cause problems with traffic congestion
 - iii. Such practices should not impair the integrity of the environment by creating health hazards from pollution.
 - iv. Land size should be sufficient to provide infrastructure
 - v. Adequate arrangements must be made to protect against fire and other hazards.
 - vi. Do not make any changes to the landscape of the area by cutting down trees, pruning or maliciously destroying natural vegetation
 - vii. No changes shall be made to the buildings, mountains, historical and

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archaeological value monuments in the area.

- 18. The Zone Factor is based on the development density of designated areas in the development plan. Further, in calculating the Zonal factor, the following are based,
 - i. Environmental and cultural sensitivity
 - ii. Improving infrastructure facilities in the respective region
 - iii. Development affordability of the respective region based on geographical factors, population density and similar factors.
- 19. Zone factor are not applicable for protected areas/ reservations and special protected areas. Only the zoning regulations apply to those zones.
- 20. The orientation of the proposed building should be a focal point of the town or a landmark or main road leading to the rest of the access road to the main relevant land and the front of the building should be planned towards that point. The Authority has the power to make the final decision if issue comes regarding the above matter.
- 21.If at any time an applicant requests a flat terrace roof for a building, the Authority will consider to it for approval.In such a case, Landscaping Plans should be submitted for at least 75% of the construction on that flat roof.

At the time of issuing the Certificate of Conformity for the said constructions, the Landscaping Plans are monitored and field inspections are carried out by the Authority every 5 years.

22. When a tree planting program is implemented on both sides of the identified roads owned by the Road Development Authority and the Local Authorities, the protection of the planted trees and its maintenance is entrusted to the nearest land owner.



23.Maximum height of the boundary wall should not exceeds 01 m from GL face to main entrance side of the building and maximum height of the boundary walls of other side not exceeds 02 m from the GL. Further height can be covered by wire mess or hedge if needed.



Figure 7.0.1: Landscaping

Figure 7.0.2: Boundary Wall







24. Retaining wall must be built with a point-blank wall and it should be a non- plastered 2 1/2 inch point wall.

Figure 7.0.4: Retaining walls



- 25. Where the building is situated on more than one street, the rear space is consider from the widest street from the land gets the right of way.
- 26. When the land locates above the access road and the building supposed to build step wise, then the rear space will consider in the highest level of the land



Figure 7.0.5: Construction of Step Wise

27. Construction should be done in a manner that does not obstruct the topography and unique environmental scenery in the Nuwara Eliya area.n order to protect such features, buildings must be constructed in such a way that the surrounding landscape can be seen through the floor at the entrance road level.In such a case, the Authority has the power to make recommendation for such plans. The floor can be used as parking space.





28. A Water and Waste Treatment Plant shall be provided by the developer in case of any other development which is having six rooms (06) and above in order to protect the existing environmental sensitivity and unique features of the area. It should be proposed in the premises and implemented properly and the Certificate of Conformity will be issued only after it has been inspected.

29. Telecommunication towers and their associated design should be designed in a "tree" shape design to suit the surrounding landscape, away from the general design.



Figure 7.0.7: Tree Shape Telecommunication Towers

30. When a developer has applied for a development project which can be considered to be locally / nationally important, if the area where the proposed developed land is located does not fall within the scope of the visual field analysis and if it is a project that suits the surrounding environment of the area, it is considered as a special matter Nuwara Eliya District The Authority has the power to take a decision with the recommendations of the Planning Committee to the Chief Planning Committee of the Authority

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Feature		Prescribed Standard		
(a).Roof	2			
(i) (ii)	Roof Angle Recommended roof for	Should not be less than 30 degree. Gable and hip roof		
(II)	Recommended 1001 101	RCC flat roof		
(iii)	Prohibited Roofing Material			
	Balcony, Roof, Surface Backyard (m of 20 square meters or less than	Dpen Floor (Terrace) are approved subject to a 10% of the plot cover.		
(iv)	Colour	The recommended colour for roofing sheet are Dark green, Shades of green ,Brown,		
(b) F	Prohibited material in facades	 i. Glazed Tile ii. Shading and contrasting aluminum cladding iii. Contrasting aluminum for door and window 		
(c) Wa	ll colour	iv. Shining colours		
(d) Door	rs and windows	Bright primary colours are not allowed.		
(e) Balc	ony railing	Preferably doors and windows shall not the fully glazed but divided into rectangles by		
(i) R	ecommended Materials	center mullions in case of glass door and windows		
(II)	Prohibited Materials	Shall be made out of timber, masonry, flatiron ,angle iron or box iron		
(f) Valaı	nce Board	Steel rods, stainless steel, Shining materials		
		Concrete facia to cover the eaves and roof shall not be allowed .A matching valance board is allowed.		

7.3.1. Architectural Standers and specification Applicable for all zone Table 7.0.5: Architectural Standers and specification Applicable for all zone

The Authority will be given 'The Urban Design Guideline" at the time of approval of the PPC which consists with the characters and special conditions of the area. That should be followed for further development.



7.3.2. Endemic Trees of Nuwara Eliya which Suitable for Planting

No	Name	Scientific Name
01	Walburutha	Psydraxmontanus
02	Lunu Ankenda	Euodialunu-ankenda
03	Wal sapu	Michelianilagirca
04	Rathu Mihiriya	Adinandralasiopetala
05	Mihiriya	Gordoniaceylanica
06	Rathu Mihiriya	Gordoniaspeciosa
07	Kihiriya	Gordoniaauxalaris
08	Yakul Maran	Syzygiumzeylancium
09	Maharathmal(Rhododendron)	Rhodendronaboriumzeylanicum
10	Gal Veralu	Elecarpus Montana
11	Kudu Dawla	Neolitseafuscata
12	Beeriya	Litesaovalifolia
13	Mal Beriya	Morus alba
14	Bombu	Symplocouscochininensis
15	Bora	Ligustrumrobustum
16	Nika Dawla	Miliosmapinnata
17	China Pera	Psidiumcattleyanum
18	Embul Pera	Psiciumguineeuse
19	Gurunda	Celtistimorensis
20	Atteriya	Murrayapaniculata
21	Kahako	Cassia spectabilis
22	Iththa	Scheffleraheterobotrya
23	Etaburu	Fagreaceilania

Table 7.0.6: Endemic Trees of Nuwara Eliya

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CHAPTER 08- ZONING GUIDELINES FOR SPECIFIC ZONES

8.1. Zone 01 (Agricultural based Low Density Zone 1/2/3)



Figure 8.0.2: Agriculture based Low Density -01

Figure 8.0.1: Agriculture based Low Density -02



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Figure 8.0.3: Agriculture based Low Density -03

8.1.1. Zoning Guidelines Table 8.0.1: Zoning Guidelines in Zone 01

(a.) (b.)	Zoning Definition Zone boundaries (Coordinates)	Preserve endemic up country agricultural use in Nuwara Eliya. Noted Under Annexure		
(c.)	Zoning Factor	0.5		
(d .)	Approved height limits	N/A		
(e.)	Approved plots coverage	20% Limited by the conditions specified in the zoning factor.		
(f.)	General Terms Related to the Zone	 Environment pollution industries are not allowed The minimum plot size should be 40 perches when grant the approval for subdivions. The present agricultural activities should be maintain as it is within the lands. The approval will be granted only for agricultural and its related activities. There will not be granted the approval for further subdivisions or development other than agricultural activities for the land where granted approval for maximum plot coverage from the date of gazetting the Development Plan. Eco- Toruism activities will be allowed after reviewing the project by the Authority. 		

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8.1.2 Permissible uses

Table 8.0.2: Permissible uses in Zone 01

No.	Permissible uses	Minimum Extent of the land (Sq. m)			
(a.)C	ommercial				
i.	Retail shops	Only 20 % of the land is approved.			
(b.)R	esidential				
i.	Residential uses	Only 20 % of the land is approved.			
ii.	retail shops for residential				
(c.)E	ducational (Etc.)				
i pre school					
(d) A	(d) Agricultural				
i	Construction for agriculture related	Only 20 % of the land is approved.			
	activities				
ii	Tourism with Organic agriculture				

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8.2. Zone 02 (Forest 1/2/3/4/5/6/7/8)

Figure 8.0.4: Forest 01



Figure 8.0.5: Forest 02





Figure 8.0.7: Forest 03

Figure 8.0.6: Forest 04







Figure 8.0.8: Forest 05

Figure 8.0.9: Forest 06







Figure 8.0.11: Forest 07

Figure 8.0.10: Forest 08





8.2.1 Zoning Guidelines

Table 8.0.3:	Zoning	Guidelines	in Zone 02	,
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(a.)	Zoning Definition	Preservation of endemic forest eco-system to Nuwara Eliya
(b.)	Zone boundaries	Noted Under Annexure
	(Coordinates)	
(c.)	Zoning Factor	0.0
(d.)	Approved height limits	N/A
(e.)	Approved plots coverage's	0
		Limited by the conditions specified in the
		zoning factor.
(f .)	General Terms Related to	It is only allowable to fulfill the proposed work
	the Zone	by sharing the existing towers and not allow any
		kind of construction except telecommunication
		column and cable car columns.
		Subdivisions are not allowed

8.2.2. Permissible uses

Table 8.0.4:Permissible uses in Zone 02

No.	Permissible uses	Minimum Extent of the land (Sq. m)
(3	a.) Eco friendly	
i.	View point huts, Exploration huts not	not exceed 50 sq.m
	exceed	

8.3 Zone 03 (High Density Mix Development Zone)



Figure 8.0.12: High Density Mix Development Zone

8.3.1 Zoning Guidelines

(a.)	Zoning Definition	Main Zone for providing infrastructure facilities for Residential and Commuting People	
	Definition		
(b.)	Zone	Noted Under Annexure	
	boundaries		
	(Coordinates)		
(c.)	Zoning	1.5	
	Factor		
(d .)	Approved heig	ht limits	



	Viewing Point						
	(Towards						
	Piduruthalagala	a)	Maximum Height Limits				
	Near to	Maximum					
	Sampath Bank	Contour					
	Junction	Height (m)	1880	1885	1902.5	1912.5	1927
	(6.973238 [.] –						
	80.765360 [.])						
		Height	1891	1900	1909	1918	1927
	Near to Bus						
	Stand	Maximum					
	(6.971807 [.] –	Contour					
	80.766805 [.])	Height (m)	1880	1890	1902.5	1912.5	1932.5
		Height	1891	1900	1909	1918	1927
(e.)	Approved	50% of the land for	or living h	iouses ai	nd 60% for	other uses	•
	plots	(Limited by the co	onditions	specified	d in the zor	ning factor.)
	coverage's						
(f .)	General	• The zone fall f	or the 'Vie	ew Anal	ysis' which	done for t	he area and
	Terms	the maximum	the maximum heights will be limited based on the analytical data				
	Related to the of the above analysis.						
	• Should be obtained approval from other institutions in case wher		case where				
			those recommendations are deemed necessary.				
		• When the land locates above the access road and the building					
		supposed to	build	step	wise, then	the rear	space will
		consider in the	highest le	-			-

8.3.2 Permissible uses

Table 8.0.6: Permissible uses in Zone 03

No.	Permissible uses	Minimum Extent of the
		land (Sq. m)
(a.)Com	mercial	
i.	Shops	
ii.	Restaurants & Hotels	
iii.	Banks and financial institutions	
iv.	Super markets	200 Sq. m
v.	Printing industry	200 Sq. m
vi.	Professional offices	

vii.	Pharmacies,	
viii.	Whole sale centers	
(b.)Reside	ntial	1
i.	Houses for living purposes	
ii.	Apartments	
iii.	Public assembly halls	
iv.	Entertainment uses	
V.	retail tread shops	
vi.	Religious places	500 Sq.m
vii.	Parks	
viii.	Play Grounds	
(c.)Institut	ional	
i.	Government and Private Offices	
ii.	Service institutions	
iii.	Hospitals	
iv.	Government hospital	
v.	Public assembly Consultancy training centers	
vi.	Professional offices	
(d) Industr	ial and Agricultural	
i.	Garage	
ii.	Agriculture related shops	-
iii.	Fertilizer stores	
iv.	Chemical fertilizer stores	Not exceed 100 Sq.m
V.	Explosive material shops	
(e) Other		
i.	Medical Centers	
ii.	Restaurants & Hotels, shops,	
iii.	Showrooms	
iv.	Vehicla parking area	
V.	Clubs	200sqm
vi.	Televsion screen shops	
vii.	Vehicle repairing centers	
viii.	Vehicle service stations	Not exceed 100 sqm
ix.	Fuel stations	
х.	Parks and play grounds	
xi.	Museums	1
xii.	Entertaintment uses	-
xiii.	Film halls	
xiv.	Transportation hubs	

8.4 Zone 04 (High Density Tourism Zone)



Figure 8.0.13: High Density Tourism Zone



8.4.1 Zoning Guidelins

(a.)	Zoning Definition	Tourism infrastructure facility development activities.					
(b.)	ZoneNoted Under Annexureboundaries(Coordinates)						
(c.)	Zoning Factor 01						
(d.)	Approved he	ight limits					
View	ving Point			num Height limits			
Near Dharmapala Roundabout (6.967547 ⁰ – 80.767537 ⁰)		Maximum Contour Height (m)	1880	1890	1897.5	1917.5	1960
		Maximum Height from MSL	1895	1911	1920	1942	1960
Near Cey Bank Rest (6.965837 ^{0 -} - 80.767312 ^{0.})		Maximum Contour Height (m)	1885	1897.5	1917.5	1940	1960
		Maximum Height from MSL	1899	1915	1932	1948	1965
Near Race Course Entrance (6.966412 ⁰⁻ 80.767477 ⁰)		Maximum Contour Height (m)	1880	1885	1900	1927.5	1960
		Maximum Height from MSL	1896	1908	1928	1941	1965
	r Unique View Road	Maximum Contour Height (m)	1892.5	1902.5	1915	1927.5	1940
	(6.963187 ⁰⁻ 80.766824 ⁰)	Maximum Height from MSL	1898	1909	1918	1931	1940
Nea	r Haddon Hill Road	Maximum Contour Height (m)	1895	1905	1912.5	1927.5	1940

Table 8.0.7: Zoning Guidelines in Zone 04
(6.962472^{0}	Maximum	1900	1910	1920	1931	1942
80	0.769315 ⁰)	Height from					
		MSL					
Near	r Hatton Road	Maximum	1872.5	1870	1897.5	1917.5	1970
	Junction	Contour Height					
(6.960737 ⁰⁻	(m)					
80	0.769315 ^{0)}	Maximum	1897.5	1912	1926	1940	1955
		Height from					
		MSL					
(e.)	Approved	50%					
	plots	(Limited by the co	nditions sp	pecified in	n the zoni	ng factor.)	
	coverage						
(f .)	General	• Environment pollution industries and over 5000 sq.f. industries					
	Terms	are not allowed					
	Related to						
	the Zone						

8.4.2 Permissible uses

No.	Permissible uses	Minimum Extent of the land (Sq. m)		
(a.)C	ommercial			
i.	Shops, Banks and financial institutions			
ii.	Retail shops			
iii.	Super Market Not exceed 50 Sq.r			
iv.	Restaurants			
	esidential			
i.	Houses for living			
ii.	Apartments	500 sqm		
iii.	Public assembly& consultation halls			
iv.	Tourism consultation training centers			
(c) T	ourism			
i.	Tourism hotels			
ii.	Massage centers			
iii.	Karaoke centers			
iv.	Night clubs			
(d) O	ther			
i.	Vehicle parking locations,			
ii.	Exhibition halls			
iii.	Cinema halls & Television screen shops			
iv.	Social clubs	Not exceed 100 sqm		
v.	Entertainment uses			
vi.	Parks, Play ground			
vii.	State and private offices			
viii.	Service centers, consultation training centers			
ix.	Professional offices			

Table 8.0.8: Permissible Uses in Zone 04



8..5. Zone 05 (Low Density Residential Zone-1,2,3,4,5,6,7,8,9)



Figure 8.0.14: Low Density Residential Zone-01

Figure 8.0.15: Low Density Residential Zone- 02







Figure 8.0.16: Low Density Residential Zone- 03

Figure 8.0.17: Low Density Residential Zone- 04







Figure 8.0.18: Low Density Residential Zone- 05

Figure 8.0.19: Low Density Residential Zone- 06







Figure 8.0.20: Low Density Residential Zone- 07

Figure 8.0.21: Low Density Residential Zone- 08







Figure 8.0.22: Low Density Residential Zone- 09

8..5.1 Zoning Guidelines

Table 8.0.9: Zoning Guidelines in Zone 05

(a.)	Zoning Definition	Low density residential zone for the barrier zone for forest zone.
(b.)	Zone boundaries	Noted Under Annexure
	(Coordinates)	
(c.)	Zoning Factor	0.5
(d .)	Approved height limits	N/A
(e.)	Approved plots coverage	40%
		(Limited by the conditions specified in the zoning
		factor.)
(f .)	General Terms Related	Wooden associated saw mills or wooden associated
	to the Zone	workshops. are not allowed

8..5.2 Permissible uses

No.	Permissible uses	Minimum Extent of the land (Sq. m)
(b.) F	Residential	
i.	Construction for residential uses500 Sq.m	
(b.)	Fourism	
i	Guest houses	Not more than 500 sq.m
ii	Home Stay Tourism	-
(d) (Other	
i.	Pharmacies,	
ii.	State sector service centers	250 Sq m
iii.	Entertainment activities	
iv.	Museums,	
v.	Parks	1000 sqm

Table 8.0.10: Permissible uses in Zone 05



8.6. Zone 06 (Middle Density Mix Zone-1,2,3,4,5,6,7)

Figure 8.0.23: Middle Density Mix Zone- 01



Figure 8. 0.24: Middle Density Mix Zone- 02







Figure 8.0.25: Middle Density Mix Zone- 03

Figure 8.0.26: Middle Density Mix Zone- 04







Figure 8.0.27: Middle Density Mix Zone- 05

Figure 8.28: Middle Density Mix Zone- 06





8..6.1 Zoning Guidelines

(a.)	Zoning	Res	sidential	and comm	uting pop	ulation	
	Definition	infrastructure facility supply zone					
(b.)	Zone boundaries	Noted Under Annexure					
	(Coordinates)						
(c.)	Zoning Factor	0.7					
(d) Approved height limits							
Viewing Point (Towards tea cultivation land)		I	Maximu	m Height I	Limits		
Near Upper Lake Road car	Maximum Contor Height (m)		1890	1892.5	1897.5	1900	1910
park 03	Maximum Height from MSL	t	1890	1892	1897	1901	1905
Near Upper Lake Road car	Maximum Contor Height (m)		1895	1900	1902.5	1910	1925
park 01	Maximum Height from MSL	t	1894	1902	1909	1916	1925
Near Upper	Maximum Contor Height (m)	ur	1895	1905	1907.5	10912.5	1925
Lake Road car park 02	Maximum Height from MSL	t	1894	1902	1909	1916	1925
Viewing Point (Towards Bonvista and							
Kalukele side)	Manimum		Max1mt	ım Height	limits		[
	Maximum Contour Height (m)		1885	1892.5	1907.5	1917.5	1925
Badulla Road	Maximum Height from MSL		1891	1900	1909	1919	1926
Near Kovil (Badulla Road)	Maximum Contour Height (m)		1887.5	1897.5	1910	1920	1927.5

Table 8.0.11: Zoning Guidelines in Zone 06

(6.	956084°-							
80.	778296°)	Maximu	ım					
		Height f	rom					
		MSL		1890	1900	1909	1918	1928
Ne	ar Punchi	Maximu	ım					
We	Wewa Con		Height					
(6.	$(6.953534^{\circ} - (m))$			1882.5	1895	1897.5	1917	1927.5
80.	80.780093°) Maximu		ım					
	Height		rom					
		MSL		1888	1897.5	1908	1918	1928
(e.)	(e.) Approved plots		50%					
	coverage's (A		(Limited by the conditions specified in the zoning factor.)					
(f .)	(f.) General Terms Zone		Zone Fac	Zone Factor and abovr view analysis will be considered for				
	Related to the	e Zone	the appro	oval.				

8.6.2 Permissible uses

No.	Permissible uses	Minimum Extent of the land (Sq. m)
(a.)Co	mmercial	
i.	Markets	
ii.	Super markets	
iii.	Whole Sale trade	
iv.	Filling stations	250 Sq.m
v.	Banks and financial institutions	
vi.	Restaurants and hotels,	
vii	Retail shops	
vii	Vehicle repairing centers	Not more than 100 sq.f.t
(b.)Re	sidential	
i.	Houses for living	250 Sq.m
ii.	Apartments	1000 Sq.m
(d) Oth	ner	
i.	Community assembly halls 500 Sq.m	
ii.	Consultation training centers	
iii.	Religion Places	
iv.	Entertainment uses	
v.	Parks, Playground	
vi.	Museums	500 Sq.m
vii.	State Hospitals	
viii.	Other Hospitals	
ix.	State and private offices	
х.	Transport centers	
xi.	Medical Centers	250 Sq.m
xii.	Vehicle parking places	
(e) To	urism	
	Karoke Halls	
ii.	Night Clubs	500 Sq.m
iii.	Massage Centers	
(f)Indu	ıstrial	
	Industries related to the houses	100 Sq.m

Table 8.0.12: Table No 8.12. Permissible uses in Zone 06

And a design of the second a design of the second and the second as the second as the second as the

8.7 Zone 07 (Middle Density Special Zone)

8.7.1 Zoning Guidelines

(a.)	Zoning Definition	Preserving the unique architectural features of Nuwara Eliya	
		as it is and further preserving the uniqueness and specific	
		charactersof the existing buildings of the zone.	
(b.)	Zone boundaries	Noted Under Annexure	
	(Coordinates)		
(c.)	Zoning Factor	0.5	
(d.)	Approved height	N/A	
	limits		
(e.)	Approved plots	50%	
	coverage	(Limited by the conditions specified in the zoning factor.)	
(f .)	General Terms	• Further subdivision of the exisiting land plots isn't	
	Related to the	allowed.	
	Zone	• Further Developments of the exisiting building only with	
		preserving unique architectural features will be allowed.	
		• Existing land uses should be kept as it is.	
		• Exisiting height should be maintained	

Table 8.0.13: Zoning Guidelines in Zone 07

8.7.2 Permissible uses

Table 8.0.14: Permissible uses in Zone 07

No.	Permissible uses	Minimum Extent of the land (Sq. m)		
i.	Permitted only for an improvement of the existing use with general terms which			
	above mentiioned.			

8.8. Zone 8 (Middle density tourism) 8.8.1 Zoning regulations

(a.)	Zoning Definition	Tourist infrastr	Tourist infrastructure facility development activities.				
(b.)	Zone boundaries (Coordinates)	Noted Under A	Annexutre				
(c.)	Zoning Factor	0.7					
(d .)	Approved						
	height limits						
Vie	wing Point						
(To	wards						
Pidu	uruthalagala and						
Gal	ways forest)		Maximu	m Height	limits (M)		
Near Hatton Road Junction (6.960737° - 80.769315°)		Maximum Contour Height (m) Maximum Height from	1877.5	1875	1890	1900	1917.
	,	MSL	1890	1895	1900	1906	191
(e.)	Approved	50%					
()	plots coverage	(Limied by the conditions specified in the zoning factor)					
(f .)	General	Any kind of				<u> </u>	
(-•)	Terms Related	3				ccordanc	e with
	 Terms Related Only the upcoming development that built in accordance with the architectural features of Nuwara Eliya will be allowed. 						
		• When the la supposed to in the highes	nd locates at build step w	ove the active the second terms of the second se	cess road a	and the bu	uilding

Table 8.0.15:. Zoning Guideliness in Zone 08



8..8.2 Permissible uses

No.	Permissible uses	Minimum Extent of the land (Sq. m)
(8	a.) Commercial	
i.	Restaurants	
ii.	Clubs	
iii.	Hotels	
iv.	Exhibition halls	500 Sq.m
v.	Cinema halls	
vi.	Television screen tread stall	
vii.	Restaurants and retail shops	
	Residential	
i.	Residential uses Dwelling houses,	500 Sq.m
(c.)	Tourism	
i.	Karoke Halls	
ii.	Night Clubs	500 Sq.m
iii.	Massage Centers	
iv.	Uses related to the tourism purposes	
(d) O	ther	
i.	Vehicle parking areas	
ii.	Parks, Playground	
iii.	Museums	
iv.	Entertaintmemt uses	500 Sq.m
v.	Public assembly consultation training centers	
vi.	State and private offices	-
vii.	Medical centers, Pharmacies, Hospitals	
viii.	Exhibition halls	

Table 8.0.16: Permissible uses in Zone 08

And a design of the second and a second second and the second as the second as the second as the second as the

8.9. Zone 09 (Entertainment zone 01/02) 8.9.1 Zoning Guidelines

(a.)	Zoning Definition	Entertainment and sports facility supply zone for residential and commuting population.
(b.)	Zone boundaries	Noted Under Annexure
	(Coordinates)	
(c.)	Zoning Factor	0
(d.)	Approved height limits	N/A
(e.)	Approved plots coverage	0
(f .)	General Terms Related to the	Laws and Regulations of the Gazette
	Zone	Notification designating Lake Gregory Lake as
		Environmental Protection Area No. 47 of 1980
		should be followed for the development.

Table 8.0.17: Zoning Guidelines in Zone 09

8..9.2 Permissible uses

Table 8.0.18: Permissible uses in Zone 09

No.	Permissible uses	Minimum Extent of the land (Sq. m)
	Anzilary facilities of sports and infrastruct The construction will not allow and eventh UDA will be decided the final approval if	ough The Main Planning Committee of



8.10. Zone 10 (Entertainment Zone- 03, 04) 8.10.1 Zoning Guidelines

(a.)	Zoning Definition	Continue Golf Course associated green dense area.
(b.)	Zone boundaries	Noted Under Annexure
	(Coordinates)	
(c.)	Zoning Factor	0.0
(d .)	Approved height limits	N/A
(e.)	Approved plots coverage	0
(f .)	General Terms Related to the	• No development activities other than golf
	Zone	related activities will be permitted
		• The construction will not allow and eventhough
		The Main Planning Committee of UDA will be
		decided the final approval if special
		development of exisiting buildings.

Table 8.0.19: Zoning Guidelines in Zone 10

8..10.2 Permissible uses

Table 8.0.20: Permissible uses in Zone 10

No.	Permissible uses	Minimum Extent of the land (Sq. m)
i.	Golf and its related activites only.	



8.11. Zone 11 (Entertainment zone 05)

8.11.1 Zoning Guidelines

(a.)	Zoning Definition	Continuing only gardening related activities.
(b.)	Zone boundaries	Noted Under Annexure
	(Coordinates)	
(c.)	Zoning Factor	0
(d .)	Approved height limits	N/A
(e.)	Approved plots coverage	0
(f .)	General Terms Related to the	Should be maintained the exisiting Greenary area.
	Zone	

Table 8.0.21: Zoning Guidelines in Zone 11

8..11.2 Permissible uses

Table 8.0.22: Permissible uses in Zone 11

No.	Permissible uses	Minimum Extent of the land (Sq. m)
i.	The construction will not allow and eventhough The Main Planning Committee of	
	UDA will be decided the final approval if special development.	



8.12. Zone 12 (Sensitive Zone 1,2,3,4)

8.12..1 Zoning Guidelines

(a.)	Zoning Definition	Zone for preservation of environmental sensitivity
(b.)	Zone boundaries	Noted Under Annexure
	(Coordinates)	
(c.)	Zoning Factor	0.0
(d .)	Approved height limits	N/A
(e.)	Approved plots coverage	0
(f .)	General Terms Related to the	No
	Zone	

Table 8.0.23: Zoning Guidelines in Zone 12

8.12.2. Permissible uses

Table 8.0.24: Permissible uses in Zone 12

No.	Permissible uses	Minimum Extent of the land (Sq. m)
i.	Existing land use should be keep as it is and	l not allow any kind of other
	constructions	



8.13. Zone 13 (Sensitive zone5/6) 8.13.1. Zoning Guidelines

(a.)	Zoning Definition	Zone for preservation of environmental
		sensitivity
(b.)	Zone boundaries	Noted Under Annexure
	(Coordinates)	
(c.)	Zoning Factor	0
(d .)	Approved height limits	N/A
(e.)	Approved plots coverage	0
(f .)	General Terms Related to	No
	the Zone	

Table 8.0.25: Zoning Guidelines in Zone 13

8.13.2. Permissible uses

Table 8.0.26: Permissible uses in Zone 13

No.	Permissible uses	Minimum Extent of the land (Sq. m)
ix.	Existing land use should be keep as it is and constructions not allow any kind of	
	other	



8.14. Zone 14 (Sensitive zones7,8)

8.14.1 Zoning Guidelines

(a.)	Zoning Definition	Zone for preservation of environment sensitivity with introducing environment friendly activities
With	Zone boundaries	Noted Under Annexure
(b.)	(Coordinates)	
(c.)	Zoning Factor	0
(d .)	Approved height limits	N/A
(e.)	Approved plots coverage	-
(f.)	General Terms Related to	Other development are not allowed expect
	the Zone	mentioned bellow table No 28

Table 8.0.27: Zoning Guidelines in Zone 14

8.14.2. Permissible uses

Table 8.0.28: Permissible uses in Zone 14

No.	Permissible uses	Minimum Extent of the land (Sq. m)
i.	Cabanas	not exceeding 50 Sq.m
ii	field study centers and recreation centers	



8.15. Zone 15 (Sensitive zones 9/10)

8.15.1 Zoning Guidelines

(a.)	Zoning Definition	Zone for preservation of environment
		sensitivity.
(b.)	Zone boundaries (Coordinates)	Noted Under Annexure
(c.)	Zoning Factor	0
(d .)	Approved height limits	N/A
(e.)	Approved plots coverage	0
(f .)	General Terms Related to the	No
	Zone	

Table 8.0.29: Zoning Guidelines in Zone 15

8.15.2 Permissible uses

Table 8.0.30: Permissible uses in Zone 15

No.	Non-Permissible uses	Minimum Extent of the land (Sq. m)
i.	Existing land use should be keep as it is and not to allow any kind of	
	other constructions	



8.16. Zone 16 (Sensitive zone11)

8.16.1 Zoning Guidelines

(a.)	Zoning Definition	Environment preservation sensitive zone
(b.)	Zone boundaries (Coordinates)	Noted Under Annexure
(c.)	Zoning Factor	0.3
(d .)	Approved height limits	N/A
(e.)	Approved plots coverage	-
(f .)	General Terms Related to the	No
	Zone	

8.16.2. Permissible uses

Table 8.0.32: Permissible us	ses in Zone 16
------------------------------	----------------

No.	Permissible uses	Minimum Extent of the land (Sq. m)
i.	Only the improvement of existing land use is allowed	

8.17. Zone 17 (Tea 1,2,3,4,5,6,7,8,9,10)

8.17.1 Zoning Guidelines

(a.)	Zoning Definition	Preserve Tea Cultivation lands
(b.)	Zone boundaries (Coordinates)	Noted Under Chapter 03
(c.)	Zoning Factor	0.3
(d .)	Approved height limits	N/A
(e.)	Approved plots coverage's	-
(f .)	General Terms Related to the	No
	Zone	

Table 8.0.33: Zoning Guidelines in Zone 17

8.17.2. Permissible uses

Table 8.34: Permissible uses in Zone 17

No.	Permissible uses	Minimum Extent of the land (Sq. m)
i.	The construction will not allow and eventhough The Nuwara Eliya District	
	Planning Committee of UDA will be decided the final approval if special	
	development of exi	siting landuse

CHAPTER 09- ROADS WIDTH, BUILDING LINE/ ROAD RESERVATIONS

9.1. Building Line / Street Line

9.1.1. The building line of the following roads shall not be less than 15 meters.

- 01. St AndrewsRoad
- 02. Lady MacclumRoad
- 03. Old BazzarRoad
- 04. LawsonStreet
- 05. New BazarStreet
- 06. UdapussallawaRoad
- 07. Double CutRoad
- 08. Race Course Road
- 09. Kandy Road
- 10. Queen Elizabath Drive
- 11. Nanu Oya Road

9.1.2. Minimum width of the roads is more than10m

- 1. The building line of the following roads shall not be less than 10 meters
 - 01. Oliphant ShanthipuraRoad
 - 02. Meepilimana "gammedda" road from GPScoordination 6° 55' 27.78" N/80° 47' 22.45"to 6° 55'40.70"N /80° 47' 02.85E"
 - 03.Grand HotelRoad
 - 04. Clinic Road (CourtRoad)
 - 05. Park Road

0 เป็นสารางการไปสาราชสารครั้งไปหนึ่ง เป็นสารางการการสาราชสารครั้งไปสารางการที่ในสารางการที่ในสาราชสารครั้งไปที่เป็

- 06. Hospita lRoad
- 07. Moon Plain Road (Vajira Road)
- 08. Upper LakeRoad
- 01. Kalukale Road

9.1.3. Minimum width of the roads is more than 08 m

1. building line of the following roads shall not be less than 06 meters

01. GleanFallRoadfromGPScoordination	6° 58' 03.05"N/80° 46' 00.09"Eto
	6° 58'00.13" N/80° 45' 49.57"E
02. Haddon Hill Road from GPS coordina	tion 6°57'44.96"N/ 80° 46' 00.33"Eto 6° 57'40.06" N/80° 45'52.20"E
03. Unique View Road fromGPScoordinati	on 6°57'47.48"N/ 80° 46' 00.61"Eto
	6° 57'48.05''N /80° 45'49.66''E
	6°57'45.48''N/80°45'53.17''E

1

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and the second second

04. Jayathilaka Mawatha

9.1.4. Minimum width of the roads more than 07 m

01. Building line or street line of the following roads shall not be less than 12meters

1.	Sri PiyatissapuraRoad	38. John Street
2.	Under Bank Road	39.Long Street
3.	Water filed Road	40. Mount Marry Road
4.	KeenaRoad	41. Gajabapura Road
5.	CrossStreet	42. Militory Road
6.	ChapelStreet	43. Galway's Road
7.	HillStreet	45. Old Kalegala Road
8.	JamesStreet	46. BambarakeleRoad
9.	KanagarthnamStreet	47. Bambarakele Bolram Road
10.	Srimath JayathilakaMawatha	48. Jayathilaka Mawatha Short cut
11. \$	Sri RahulaMawatha	49. Kalukale Short Cut Road
12.	Police Lane	50 Kalukale – BonavistaRoad
13.	GamunuMawatha	51. Gajabapura Short cut Road
14.	Sri SumangalaMawatha	52. Loverslip Short Cut

Managements and free week a character in water and the second statements and the second s

15. RajasingheMawatha	53. Bruwary Short cut
16. Convent Short CutRoad	54. Moon Plain temple road
17. WerdabanRoad	55. Boralanda Temple Road
18. ChurchRoad	56. RahulaMawatha Short cut
19. Broom filedRoad	57. Nawagamgoda Road
20. Crighton VillageRoad	58. Magasthota Road
21. BaroosRoad	59. MC Housing road
22. AgricultureRoad	60 MagasthotaKalukale ShortCut
23. Experimental GardenRoad	61 Magasthota 1 st Lane
24. KovilaRoad	62. Magasthota 2 nd Lane
25. EdirisingheMawatha	63. Magasthota 3 rd Lane
26. MahindaMawarha	64. Katti seeya road
27. Dun Short CutRoad	65. Ranawiru GammanaRoad
28. AbeyapuraRoad	66. Meepilimana Gammedda road
29. Lady MacclumRoad	67. Jayawardhana Road
30. Upper Gibson Road	68. Mukalana Road
31. Lower GibsonRoad	69. Dharmapalapura Road
32. Single Tree Hill Road	70. Rose Garden Road
33. Haddon Hill Road	71. Windmayor Park Road
34. Unique View Road	72. Spenser Park Road
35. RanasingheMawatha	73. Misty hill Road
36. Lebanon Road	74. Seetha Eliya Gammedda Road
37.Glean Fall Road	75. Haggala Gammedda Road
	1

02.Minimum Building line or street line limits is 6 meters for the road not mention in abovelist and width of the other roads 6m



9.2. Reservation for water bodies

	Water Body	Reservation from the bank
1	Small water ways Bed width less than 1 meter	The bed width of the water way
2	Large water ways bed width between 1 and 3 meters	The bed width of the water way +01
3	Large water ways bed width between 3 and 16 meters	The bed width of the water way +03
4	Water ways Bed with more than 16 meters	The bed width of the water way +05



9.3. Permissible height limits according to the view analysis9.3.1. Objectives of protecting visibility zones

The visual environment is one of the most important factors in creating an urban area and making the environment attractive. The human brain communicates information through what the human eye see in the environment and what it feels through it. The result of that, the visual environment appears to be a very important feature in the perception of the city by people who encounter it. Therefore, it can be said that creating a good environment through urban development is very essential. Therefore, this visual field analysis was used in the background study as well as the analysis in formulating this Nuwara Eliya development plan.

Nuwara Eliya is a city in the heart of the central highlands of Sri Lanka with a unique climate and landscape. This is one of the main water catchment area for main water falls of Sri Lanka which surround by mountain ranges of Piduruthalagala , Kikiliyamana, Single Tree and Haggala. Even though, there can be identified following main facts when studying the urban environment of Nuwara Eliya area.

- Construction has been done without following proper regulations and plans.
- Improper construction in hilly areas
- Construction done without considering environmental factors, landscape and topology
- Upcoming high-rise construction and unplanned development which unsuitable architectural pattern for the area.

Therefore, the development plan is aim to protect the environment and physical features and upgrade the urban development with increase the regional specialty. Since, the upcoming future development will be based on the data obtained from this view analysis to limit the maximum height of the building. Especially the analysis focuses to achieve following objectives

- To control and protect visual object and environmental features
- To provide guidelines regarding maximum height of the developments of the area.
- To visualize the effects of improper development which affect to environmental features.
- To identify visibility level from mentioned location.

Accordingly, other rules and regulations will be controlled with the recommendations of visibility analysis and development

Map 9-1: Visibility Protection Corridors



Part III Annexures



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Annexure 02- Analysis for the Zoning Plan

Environment sensitivity study

Following criteria based on for basic environment sensitivity analysis. Accordingly apply the weighted to the criteria. These analytical weights considered protect existing sensitivity in Nuwara Eliya area, preservation of the quality of sensitivity, and also weightages were put considering their importance. Said weightages and criteria given below.

	Criteria	Weightage
1	Forest area	20%
2	Water Catchment area	18%
3	Upcountry vegetable cultivation usage lands	14%
4	Tea cultivation areas	17%
5	Disaster prone areas	11%
6	Steep slopes and high altitude lands	11%
7	Green lands	9%

Apply the weightages for the whole development plan areas with the assistant of the geographical data system and done the sensitivity analysis plan. Accordingly prepared map shown on below.







Livability Analysis

Mainly it has been considered the tourist attraction area and new development potential area and infrastructure for residential and related use within the Greater Nuwara Eliya area. Accordingly Following criteria shown in table as considered.

Tendency to tourism industry is considered as main economic strategy in Nuwara Eliya area. AS well as supply of health, education and commercial infrastructure facilities are also considered. Accordingly it is considered the importance of the respective zones and weightages given for the zones.

	Criteria	Weightage
1	Sub urban center	16
2	Tourist attractive locations	16
3	High altitude areas	4
4	Main road approach facility	16
5	Education centers	16
6	Medical centers	07
7	Population growth	13
8	Building density	12
9	Disaster minimum zone (Protective zone)	

According to this weights Analytical map is shown following map No. 1.2, which is referenced in Geographic Information Systems.

Livability Analyses



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Development Potential Analysis

Analysis of the development potential of Nuwara Eliya town was done by considering the areas suitable for the future development of the town Accordingly a combination analysis was used The combination analysis will identify the economic benefits of the city, identify areas that can be further developed, and avoid sensitive areas. Accordingly, the geographical information analysis sucks the analytical maps.

The zoning composite map was obtained by combining the above environmental sensitivity analysis, the analysis of the livability areas and the developmentpotential analysis. shows the zoning map.

It identified areas suitable for living / tourism / development as well as undesirable areas and mediocre areas. Considering all these factors, the areas with high density and low density and sensitive area were identified with high specificity.





Suitable areas for future development

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Annexture 03- Zoning Coordinates

5	6°56'54.08"N	80°46'5.78"E
10	6°55'42.24"N	80°46'47.42"E
11	6°55'40.30"N	80°47'2.15"E
12	6°55'33.21"N	80°47'2.90"E
13	6°55'16.19"N	80°47'22.97"E
14	6°55'49.56"N	80°46'35.40"E
15	6°55'53.02"N	80°46'6.34"E
16	6°55'40.44"N	80°46'23.53"E
17	6°55'20.66"N	80°46'55.52"E
18	6°55'27.18"N	80°46'39.12"E

Agriculture Based Low Density Zone- 01

Agriculture Based Low Density Zone- 02

1	6°55'18.41"N	80°47'32.06"E
3	6°55'21.17"N	80°47'53.36"E
4	6°55'24.51"N	80°47'54.93"E
6	6°55'29.22"N	80°47'52.39"E
7	6°55'33.47"N	80°47'50.82"E
8	6°55'36.70"N	80°47'54.04"E
9	6°55'41.43"N	80°47'50.46"E
10	6°55'43.19"N	80°47'30.09"E
11	6°55'45.40"N	80°47'29.71"E
12	6°55'47.35"N	80°47'23.36"E
13	6°55'45.85"N	80°47'22.01"E
14	6°55'39.25"N	80°47'23.08"E
15	6°55'37.07"N	80°47'31.99"E
16	6°55'37.56"N	80°47'33.01"E



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17	6°55'36.47"N	80°47'35.00"E
18	6°55'30.16"N	80°47'34.47"E
19	6°55'27.67"N	80°47'29.56"E
20	6°55'23.03"N	80°47'33.83"E
21	6°55'21.83"N	80°47'31.61"E
22	6°55'40.02"N	80°47'44.10"E

Agriculture Based Low Density Zone- 03

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MAL LINES

$\begin{array}{cccccccccccccccccccccccccccccccccccc$						
3 6°57'36.35"N 80°47'26.15"E 45 6°56'48.07"N 80°48'44.72"E 4 6°57'36.28"N 80°47'23.58"E 46 6°56'48.04"N 80°48'43.18"E 5 6°57'33.78"N 80°47'20.57"E 47 6°56'49.10"N 80°48'40.32"E 6 6°57'32.00"N 80°47'24.93"E 48 6°56'45.91"N 80°48'42.08"E 7 6°57'28.15"N 80°47'26.91"E 50 6°56'43.91"N 80°48'32.83"E 8 6°57'22.19"N 80°47'20.55"E 51 6°56'44.85"N 80°48'32.83"E 9 80°47'26.91"E 51 6°56'43.93"N 80°48'32.83"E 10 6°57'16.65"N 80°47'20.42"E 52 6°56'43.93"N 80°48'22.83"E 11 6°57'14.79"N 80°47'20.52"E 54 6°56'48.06"N 80°48'22.991"E 12 6°57'13.50"N 80°47'22.50"E 56 6°56'50.08"N 80°48'22.88"E 14 6°57'8.32"N 80°47'26.31"E 57 6°56'53.06"N 80°48'22.88"E 15 6°57'7.36"N 80°47'35.97"E	1	6°57'33.37"N	80°47'32.56"E	43	6°56'50.41"N	80°48'47.07"E
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2	6°57'35.62"N	80°47'29.85"E	44	6°56'49.60"N	80°48'45.28"E
5 6°57'33.78"N 80°47'20.57"E 47 6°56'49.10"N 80°48'40.32"E 6 6°57'32.00"N 80°47'24.93"E 48 6°56'43.91"N 80°48'40.38"E 7 6°57'28.15"N 80°47'30.08"E 49 6°56'43.91"N 80°48'48'32.68"E 8 6°57'22.19"N 80°47'26.91"E 50 6°56'43.91"N 80°48'32.83"E 9 80°47'26.91"E 51 6°56'44.85"N 80°48'32.83"E 10 6°57'16.65"N 80°47'20.42"E 52 6°56'43.93"N 80°48'32.66"E 11 6°57'14.79"N 80°47'20.52"E 54 6°56'48.06"N 80°48'32.64"E 12 6°57'13.50"N 80°47'20.52"E 54 6°56'48.81"N 80°48'22.64"E 13 6°57'12.90"N 80°47'20.52"E 54 6°56'50.08"N 80°48'22.88"E 14 6°57'7.36"N 80°47'26.31"E 57 6°56'51.60"N 80°48'22.88"E 15 6°57'10.68"N 80°47'37.85"E 60 6°56'51.60"N 80°48'35.29"E 16 6°57'7.26"N 80°47'47.14"E <td>3</td> <td>6°57'36.35"N</td> <td>80°47'26.15"E</td> <td>45</td> <td>6°56'48.07"N</td> <td>80°48'44.72"E</td>	3	6°57'36.35"N	80°47'26.15"E	45	6°56'48.07"N	80°48'44.72"E
6 6°57'32.00"N 80°47'24.93"E 48 6°56'45.91"N 80°48'42.08"E 7 6°57'28.15"N 80°47'30.08"E 49 6°56'43.91"N 80°48'38.67"E 8 6°57'22.19"N 80°47'26.91"E 50 6°56'47.01"N 80°48'32.83"E 9 80°47'26.91"E 51 6°56'46.98"N 80°48'32.83"E 10 6°57'16.65"N 80°47'20.42"E 52 6°56'43.93"N 80°48'32.66"E 11 6°57'14.79"N 80°47'20.52"E 54 6°56'48.06"N 80°48'29.91"E 12 6°57'13.50"N 80°47'20.52"E 54 6°56'48.06"N 80'48'29.91"E 13 6°57'12.90"N 80°47'22.50"E 56 6°56'50.08"N 80'48'22.64"E 14 6°57'8.32"N 80°47'26.31"E 57 6°56'51.60"N 80'48'22.88"E 16 6°57'7.36"N 80°47'37.97"E 59 6°56'51.60"N 80'48'32.27"E 17 6°57'7.26"N 80°47'45.65"E 62 6°56'53.06"N 80'48'3.634"E 18 6°57'7.26"N 80°47'45.65"E	4	6°57'36.28"N	80°47'23.58"E	46	6°56'48.04"N	80°48'43.18"E
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5	6°57'33.78"N	80°47'20.57"E	47	6°56'49.10"N	80°48'40.32"E
8 6°57'22.19"N 80°47'26.91"E 50 6°56'47.01"N 80°48'34.45"E 9 9 80°47'23.55"E 51 6°56'46.98"N 80°48'32.83"E 10 10 6°57'16.65"N 80°47'20.42"E 52 6°56'44.85"N 80°48'32.66"E 11 6°57'14.79"N 80°47'20.52"E 53 6°56'43.93"N 80°48'32.66"E 12 6°57'13.50"N 80°47'20.52"E 54 6°56'48.06"N 80°48'29.91"E 13 6°57'12.90"N 80°47'20.52"E 54 6°56'48.81"N 80°48'25.64"E 14 6°57'8.28"N 80°47'20.52"E 56 6°56'50.08"N 80°48'22.88"E 15 6°57'7.36"N 80°47'22.50"E 56 6°56'50.08"N 80°48'22.88"E 16 6°57'8.32"N 80°47'27.43"E 58 6°56'51.60"N 80°48'32.28"E 17 6°57'10.68"N 80°47'37.85"E 60 6°56'53.06"N 80°48'35.29"E 18 6°57'7.26"N 80°47'47.608"E 61 6°56'57.46"N 80°48'35.06"E 20 6°57'2.0	6	6°57'32.00"N	80°47'24.93"E	48	6°56'45.91"N	80°48'42.08"E
9 80°47'26.91"E 51 6°56'46.98"N 80°48'32.83"E 10 6°57'16.65"N 80°47'20.42"E 52 6°56'44.85"N 80°48'32.66"E 11 6°57'16.65"N 80°47'19.58"E 53 6°56'43.93"N 80°48'32.66"E 12 6°57'13.50"N 80°47'20.52"E 54 6°56'48.06"N 80°48'29.91"E 13 6°57'12.90"N 80°47'20.52"E 54 6°56'48.06"N 80°48'25.64"E 14 6°57'8.28"N 80°47'20.51"E 55 6°56'50.08"N 80°48'22.69"E 15 6°57'7.36"N 80°47'22.50"E 56 6°56'52.75"N 80°48'22.88"E 16 6°57'8.28"N 80°47'27.43"E 58 6°56'58.91"N 80°48'32.28"E 16 6°57'7.26"N 80°47'37.85"E 60 6°56'53.06"N 80°48'32.29"E 18 6°57'7.26"N 80°47'45.65"E 62 6°56'57.95"N 80°48'33.60"E 20 6°57'2.00"N 80°47'47.14"E 63 6°56'57.95"N 80°48'33.45"E 21 6°57'3.30"N 80°47'49.62"E	7	6°57'28.15"N	80°47'30.08"E	49	6°56'43.91"N	80°48'38.67"E
80°47'26.91"E516°56'46.98"N80°48'32.83"E106°57'16.65"N80°47'20.42"E526°56'44.85"N80°48'32.66"E116°57'14.79"N80°47'19.58"E536°56'43.93"N80°48'31.60"E126°57'13.50"N80°47'20.52"E546°56'48.06"N80°48'29.91"E136°57'12.90"N80°47'22.50"E556°56'48.81"N80°48'25.64"E146°57'8.28"N80°47'22.50"E566°56'50.08"N80°48'22.88"E156°57'7.36"N80°47'26.31"E576°56'52.75"N80°48'22.88"E166°57'8.32"N80°47'27.43"E586°56'53.91"N80°48'22.77"E176°57'10.68"N80°47'37.85"E606°56'53.06"N80°48'35.29"E186°57'7.26"N80°47'37.85"E606°56'57.46"N80°48'36.34"E196°56'57.92"N80°47'45.65"E626°56'57.46"N80°48'36.34"E206°57'2.00"N80°47'45.65"E626°56'57.95"N80°48'38.45"E216°57'3.30"N80°47'47.14"E636°56'57.95"N80°48'39.35"E236°57'5.28"N80°47'48.07"E646°56'55.83"N80°48'39.35"E246°57'6.00"N80°47'50.58"E666°56'56.58"N80°48'31.48"E256°57'4.81"N80°47'50.58"E666°56'56.58"N80°48'31.48"E266°57'1.66"N80°47'55.18"E676°57'1.22"N80°48'31.48"E266°57'1.66"N80°47'55.29"E686°56'58.88"N <td< td=""><td>8</td><td>6°57'22.19"N</td><td>80°47'26.91"E</td><td>50</td><td>6°56'47.01"N</td><td>80°48'34.45"E</td></td<>	8	6°57'22.19"N	80°47'26.91"E	50	6°56'47.01"N	80°48'34.45"E
106°57'16.65"N80°47'20.42"E526°56'44.85"N80°48'32.66"E116°57'14.79"N80°47'19.58"E536°56'43.93"N80°48'31.60"E126°57'13.50"N80°47'20.52"E546°56'48.06"N80°48'29.91"E136°57'12.90"N80°47'23.94"E556°56'48.81"N80°48'25.64"E146°57'8.28"N80°47'26.31"E576°56'50.08"N80°48'22.88"E156°57'7.36"N80°47'26.31"E576°56'52.75"N80°48'22.88"E166°57'8.32"N80°47'27.43"E586°56'51.60"N80°48'32.27"E176°57'10.68"N80°47'37.85"E606°56'51.60"N80°48'36.34"E196°56'57.92"N80°47'46.08"E616°56'57.46"N80°48'35.06"E206°57'2.00"N80°47'45.65"E626°56'58.84"N80°48'35.06"E216°57'3.30"N80°47'47.14"E636°56'57.95"N80°48'39.35"E226°57'5.28"N80°47'49.62"E656°56'55.83"N80°48'43.12"E236°57'6.00"N80°47'49.62"E656°56'55.83"N80°48'42.14"E246°57'6.00"N80°47'55.18"E676°56'56.58"N80°48'36.80"E256°57'4.81"N80°47'55.18"E676°56'58.88"N80°48'36.80"E266°57'1.66"N80°47'55.29"E686°56'58.88"N80°48'36.80"E	9		80°47'23.55"E			
116°57'14.79"N80°47'19.58"E536°56'43.93"N80°48'31.60"E126°57'13.50"N80°47'20.52"E546°56'48.06"N80°48'29.91"E136°57'12.90"N80°47'23.94"E556°56'48.81"N80°48'26.64"E146°57'8.28"N80°47'22.50"E566°56'50.08"N80°48'26.93"E156°57'7.36"N80°47'26.31"E576°56'52.75"N80°48'22.88"E166°57'8.32"N80°47'27.43"E586°56'58.91"N80°48'22.77"E176°57'10.68"N80°47'35.97"E596°56'51.60"N80°48'35.29"E186°57'7.26"N80°47'37.85"E606°56'53.06"N80°48'36.34"E196°56'57.92"N80°47'47.08"E616°56'58.84"N80°48'36.04"E206°57'2.00"N80°47'47.14"E636°56'56.10"N80°48'38.45"E216°57'3.30"N80°47'47.14"E636°56'56.10"N80°48'39.35"E236°57'5.28"N80°47'49.62"E656°56'56.58"N80°48'43.93.5"E246°57'6.00"N80°47'50.58"E666°56'56.58"N80°48'42.14"E256°57'4.81"N80°47'50.58"E676°56'56.58"N80°48'42.14"E266°57'1.66"N80°47'55.18"E676°56'58.88"N80°48'36.80"E266°57'1.66"N80°47'55.29"E686°56'58.88"N80°48'36.80"E		80°47'26.91"E		51	6°56'46.98"N	80°48'32.83"E
12 6°57'13.50"N 80°47'20.52"E 54 6°56'48.06"N 80°48'29.91"E 13 6°57'12.90"N 80°47'23.94"E 55 6°56'48.81"N 80°48'25.64"E 14 6°57'8.28"N 80°47'20.52"E 56 6°56'50.08"N 80°48'26.93"E 15 6°57'7.36"N 80°47'26.31"E 57 6°56'52.75"N 80°48'22.88"E 16 6°57'8.32"N 80°47'27.43"E 58 6°56'58.91"N 80°48'22.77"E 17 6°57'10.68"N 80°47'35.97"E 59 6°56'51.60"N 80°48'35.29"E 18 6°57'7.26"N 80°47'47.785"E 60 6°56'57.306"N 80°48'36.34"E 19 6°56'57.92"N 80°47'47.608"E 61 6°56'57.46"N 80°48'35.06"E 20 6°57'2.00"N 80°47'47.14"E 63 6°56'56.10"N 80°48'38.45"E 21 6°57'2.71"N 80°47'48.07"E 64 6°56'56.610"N 80°48'43.93.5"E 22 6°57'5.28"N 80°47'49.62"E 65 6°56'55.83"N 80°48'42.14"E 23 6°57'6.00"N </td <td>10</td> <td>6°57'16.65"N</td> <td>80°47'20.42"'E</td> <td>52</td> <td>6°56'44.85"N</td> <td>80°48'32.66"E</td>	10	6°57'16.65"N	80°47'20.42"'E	52	6°56'44.85"N	80°48'32.66"E
13 6°57'12.90"N 80°47'23.94"E 55 6°56'48.81"N 80°48'25.64"E 14 6°57'8.28"N 80°47'22.50"E 56 6°56'50.08"N 80°48'26.93"E 15 6°57'7.36"N 80°47'26.31"E 57 6°56'52.75"N 80°48'22.88"E 16 6°57'8.32"N 80°47'27.43"E 58 6°56'58.91"N 80°48'22.77"E 17 6°57'10.68"N 80°47'37.85"E 60 6°56'51.60"N 80°48'35.29"E 18 6°57'7.26"N 80°47'46.08"E 61 6°56'57.46"N 80°48'34.02"E 20 6°57'2.00"N 80°47'45.65"E 62 6°56'57.95"N 80°48'38.45"E 21 6°57'3.30"N 80°47'47.14"E 63 6°56'56.10"N 80°48'39.35"E 22 6°57'2.71"N 80°47'48.07"E 64 6°56'56.10"N 80°48'39.35"E 23 6°57'5.28"N 80°47'50.58"E 65 6°56'55.83"N 80°48'42.14"E 24 6°57'6.00"N 80°47'50.58"E 66 6°56'56.58"N 80°48'36.80"E 24 6°57'1.66"N	11	6°57'14.79"N	80°47'19.58"E	53	6°56'43.93"N	80°48'31.60"E
146°57'8.28"N80°47'22.50"E566°56'50.08"N80°48'26.93"E156°57'7.36"N80°47'26.31"E576°56'52.75"N80°48'22.88"E166°57'8.32"N80°47'27.43"E586°56'58.91"N80°48'22.77"E176°57'10.68"N80°47'35.97"E596°56'51.60"N80°48'35.29"E186°57'7.26"N80°47'37.85"E606°56'53.06"N80°48'36.34"E196°56'57.92"N80°47'46.08"E616°56'58.84"N80°48'35.06"E206°57'2.00"N80°47'45.65"E626°56'58.84"N80°48'35.06"E216°57'3.30"N80°47'47.14"E636°56'57.95"N80°48'38.45"E226°57'5.28"N80°47'49.62"E646°56'55.83"N80°48'43.42"E246°57'6.00"N80°47'50.58"E666°56'56.58"N80°48'42.14"E256°57'4.81"N80°47'55.18"E676°56'58.88"N80°48'36.80"E266°57'1.66"N80°47'56.29"E686°56'58.88"N80°48'31.48"E	12	6°57'13.50"N	80°47'20.52"E	54	6°56'48.06"N	80°48'29.91"E
156°57'7.36"N80°47'26.31"E576°50'52.75"N80°48'22.88"E166°57'8.32"N80°47'27.43"E586°56'58.91"N80°48'22.77"E176°57'10.68"N80°47'35.97"E596°56'51.60"N80°48'35.29"E186°57'7.26"N80°47'37.85"E606°56'53.06"N80°48'36.34"E196°56'57.92"N80°47'46.08"E616°56'57.46"N80°48'34.02"E206°57'2.00"N80°47'45.65"E626°56'58.84"N80°48'35.06"E216°57'3.30"N80°47'47.14"E636°56'56.10"N80°48'38.45"E226°57'5.28"N80°47'48.07"E646°56'55.83"N80°48'39.35"E236°57'6.00"N80°47'50.58"E666°56'56.58"N80°48'41.26"E246°57'6.00"N80°47'50.58"E666°56'56.58"N80°48'36.80"E256°57'4.81"N80°47'55.18"E676°56'58.88"N80°48'36.80"E266°57'1.66"N80°47'56.29"E686°56'58.88"N80°48'31.48"E	13	6°57'12.90"N	80°47'23.94"E	55	6°56'48.81"N	80°48'25.64"E
16 6°57'8.32"N 80°47'27.43"E 58 6°56'58.91"N 80°48'22.77"E 17 6°57'10.68"N 80°47'35.97"E 59 6°56'51.60"N 80°48'35.29"E 18 6°57'7.26"N 80°47'37.85"E 60 6°56'53.06"N 80°48'36.34"E 19 6°56'57.92"N 80°47'46.08"E 61 6°56'57.46"N 80°48'36.34"E 20 6°57'2.00"N 80°47'45.65"E 62 6°56'57.95"N 80°48'35.06"E 21 6°57'3.30"N 80°47'47.14"E 63 6°56'56.10"N 80°48'39.35"E 22 6°57'2.71"N 80°47'48.07"E 64 6°56'56.10"N 80°48'39.35"E 23 6°57'5.28"N 80°47'50.58"E 65 6°56'56.58"N 80°48'42.14"E 24 6°57'6.00"N 80°47'50.58"E 66 6°56'56.58"N 80°48'42.14"E 25 6°57'4.81"N 80°47'55.18"E 67 6°57'1.22"N 80°48'36.80"E 26 6°57'1.66"N 80°47'56.29"E 68 6°56'58.88"N 80°48'31.48"E	14	6°57'8.28"N	80°47'22.50"E	56	6°56'50.08"N	80°48'26.93"E
176°57'10.68"N80°47'35.97"E596°56'51.60"N80°48'35.29"E186°57'7.26"N80°47'37.85"E606°56'53.06"N80°48'36.34"E196°56'57.92"N80°47'46.08"E616°56'57.46"N80°48'34.02"E206°57'2.00"N80°47'45.65"E626°56'58.84"N80°48'35.06"E216°57'3.30"N80°47'47.14"E636°56'56.57.95"N80°48'38.45"E226°57'2.71"N80°47'48.07"E646°56'56.10"N80°48'39.35"E236°57'5.28"N80°47'49.62"E656°56'56.58"N80°48'41.26"E246°57'6.00"N80°47'50.58"E666°56'56.58"N80°48'42.14"E256°57'4.81"N80°47'55.18"E676°56'58.88"N80°48'36.80"E266°57'1.66"N80°47'56.29"E686°56'58.88"N80°48'31.48"E	15	6°57'7.36"N	80°47'26.31"E	57	6°56'52.75"N	80°48'22.88"E
18 6°57'7.26"N 80°47'37.85"E 60 6°56'53.06"N 80°48'36.34"E 19 6°56'57.92"N 80°47'46.08"E 61 6°56'57.46"N 80°48'34.02"E 20 6°57'2.00"N 80°47'45.65"E 62 6°56'57.95"N 80°48'35.06"E 21 6°57'3.30"N 80°47'47.14"E 63 6°56'57.95"N 80°48'38.45"E 22 6°57'2.71"N 80°47'48.07"E 64 6°56'56.10"N 80°48'39.35"E 23 6°57'5.28"N 80°47'49.62"E 65 6°56'56.58.3"N 80°48'41.26"E 24 6°57'6.00"N 80°47'50.58"E 66 6°56'56.58"N 80°48'42.14"E 25 6°57'4.81"N 80°47'55.18"E 67 6°57'1.22"N 80°48'36.80"E 26 6°57'1.66"N 80°47'56.29"E 68 6°56'58.88"N 80°48'31.48"E	16	6°57'8.32"N	80°47'27.43"E	58	6°56'58.91"N	80°48'22.77"E
19 6°56'57.92"N 80°47'46.08"E 61 6°56'57.46"N 80°48'34.02"E 20 6°57'2.00"N 80°47'45.65"E 62 6°56'58.84"N 80°48'35.06"E 21 6°57'3.30"N 80°47'47.14"E 63 6°56'56.57.95"N 80°48'38.45"E 22 6°57'2.71"N 80°47'48.07"E 64 6°56'56.10"N 80°48'39.35"E 23 6°57'5.28"N 80°47'49.62"E 65 6°56'56.58"N 80°48'41.26"E 24 6°57'6.00"N 80°47'50.58"E 66 6°56'56.58"N 80°48'42.14"E 25 6°57'4.81"N 80°47'55.18"E 67 6°56'58.88"N 80°48'36.80"E 26 6°57'1.66"N 80°47'56.29"E 68 6°56'58.88"N 80°48'31.48"E	17	6°57'10.68"N	80°47'35.97"E	59	6°56'51.60"N	80°48'35.29"E
20 6°57'2.00"N 80°47'45.65"E 62 6°56'58.84"N 80°48'35.06"E 21 6°57'3.30"N 80°47'47.14"E 63 6°56'57.95"N 80°48'38.45"E 22 6°57'2.71"N 80°47'48.07"E 64 6°56'56.10"N 80°48'39.35"E 23 6°57'5.28"N 80°47'49.62"E 65 6°56'55.83"N 80°48'41.26"E 24 6°57'6.00"N 80°47'50.58"E 66 6°56'56.58"N 80°48'42.14"E 25 6°57'4.81"N 80°47'55.18"E 67 6°57'1.22"N 80°48'36.80"E 26 6°57'1.66"N 80°47'56.29"E 68 6°56'58.88"N 80°48'31.48"E	18	6°57'7.26"N	80°47'37.85"E	60	6°56'53.06"N	80°48'36.34"E
21 6°57'3.30"N 80°47'47.14"E 63 6°56'57.95"N 80°48'38.45"E 22 6°57'2.71"N 80°47'48.07"E 64 6°56'56.10"N 80°48'39.35"E 23 6°57'5.28"N 80°47'49.62"E 65 6°56'56.58"N 80°48'41.26"E 24 6°57'6.00"N 80°47'50.58"E 66 6°56'56.58"N 80°48'42.14"E 25 6°57'4.81"N 80°47'55.18"E 67 6°57'1.22"N 80°48'36.80"E 26 6°57'1.66"N 80°47'56.29"E 68 6°56'58.88"N 80°48'31.48"E	19	6°56'57.92"N	80°47'46.08''E	61	6°56'57.46"N	80°48'34.02"E
22 6°57'2.71"N 80°47'48.07"E 64 6°56'56.10"N 80°48'39.35"E 23 6°57'5.28"N 80°47'49.62"E 65 6°56'55.83"N 80°48'41.26"E 24 6°57'6.00"N 80°47'50.58"E 66 6°56'56.58"N 80°48'42.14"E 25 6°57'4.81"N 80°47'55.18"E 67 6°57'1.22"N 80°48'36.80"E 26 6°57'1.66"N 80°47'56.29"E 68 6°56'58.88"N 80°48'31.48"E	20	6°57'2.00"N	80°47'45.65"'E	62	6°56'58.84"N	80°48'35.06"E
23 6°57'5.28"N 80°47'49.62"E 65 6°56'55.83"N 80°48'41.26"E 24 6°57'6.00"N 80°47'50.58"E 66 6°56'56.58"N 80°48'42.14"E 25 6°57'4.81"N 80°47'55.18"E 67 6°57'1.22"N 80°48'36.80"E 26 6°57'1.66"N 80°47'56.29"E 68 6°56'58.88"N 80°48'31.48"E	21	6°57'3.30"N	80°47'47.14"E	63	6°56'57.95"N	80°48'38.45"E
24 6°57'6.00"N 80°47'50.58"E 66 6°56'56.58"N 80°48'42.14"E 25 6°57'4.81"N 80°47'55.18"E 67 6°57'1.22"N 80°48'36.80"E 26 6°57'1.66"N 80°47'56.29"E 68 6°56'58.88"N 80°48'31.48"E	22	6°57'2.71"N	80°47'48.07"E	64	6°56'56.10"N	80°48'39.35"E
25 6°57'4.81"N 80°47'55.18"E 67 6°57'1.22"N 80°48'36.80"E 26 6°57'1.66"N 80°47'56.29"E 68 6°56'58.88"N 80°48'31.48"E	23	6°57'5.28"N	80°47'49.62''E	65	6°56'55.83"N	80°48'41.26"E
26 6°57'1.66"N 80°47'56.29"E 68 6°56'58.88"N 80°48'31.48"E	24	6°57'6.00"N	80°47'50.58"E	66	6°56'56.58"N	80°48'42.14"E
	25	6°57'4.81"N	80°47'55.18"E	67	6°57'1.22"N	80°48'36.80"E
27 6°57'0.30"N 80°47'58.17"E 69 6°56'59.15"N 80°48'29.26"E	26	6°57'1.66"N	80°47'56.29"E	68	6°56'58.88"N	80°48'31.48"E
	27	6°57'0.30"N	80°47'58.17"E	69	6°56'59.15"N	80°48'29.26"E

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28	6°57'0.48"N	80°48'0.76"E	70	6°57'2.56"N	80°48'28.27"E
29	6°56'58.23"N	80°48'4.19"E	71	6°57'3.54"N	80°48'25.25"E
30	6°56'57.20"N	80°48'3.97"E	72	6°57'9.23"N	80°48'25.28"E
31	6°56'57.79"N	80°48'2.15"E	73	6°57'13.68"N	80°48'20.88"E
32	6°56'55.67"N	80°48'1.84"E	74	6°57'21.05"N	80°48'14.88"E
33	6°56'49.55"N	80°48'5.66"E	75	6°57'27.53"N	80°48'4.69"E
34	6°56'49.67"N	80°48'8.22"E	76	6°57'27.49"N	80°48'3.25"E
35	6°56'47.51"N	80°48'14.06"E	77	6°57'32.93"N	80°47'58.15"E
36	6°56'45.89"N	80°48'17.82"E	78	6°57'28.81"N	80°47'58.58"E
37	6°56'44.55"N	80°48'18.69"E	79	6°57'26.63"N	80°47'53.31"E
38	6°56'42.49"N	80°48'24.65"E	80	6°57'24.72"N	80°47'52.37"E
39	6°56'38.68"N	80°48'35.87"E	81	6°57'23.83"N	80°47'48.29"E
40	6°56'35.67"N	80°48'44.22"E	82	6°57'28.53"N	80°47'50.53"E
41	6°56'42.80"N	80°48'47.40"E	83	6°57'29.05"N	80°47'42.35"E
42	6°56'46.85"N	80°48'49.28"E	84	6°57'35.41"N	80°47'33.54"E

Forest Zone- 01

Automatel Answer

MAL HUMAN

1	6°58'35.90"N	80°47'6.29"E	30	6°58'56.95"N	80°45'36.73"E
1	0.50.55.50 1	00 47 0.25 L			
			31	6°58'55.85"N	80°45'39.42"E
2	6°58'38.59"N	80°47'12.24"E			
			32	6°58'57.25"N	80°45'40.48"E
3	6°58'42.29"N	80°47'8.06"E			
			33	6°58'56.48"N	80°45'42.04"E
4	6°58'41.75"N	80°46'49.34"E			
			34	6°58'56.66"N	80°45'44.06"E
5	6°58'56.08"N	80°46'11.42"E			
			35	6°58'55.92"N	80°45'51.59"E
6	6°59'9.03"N	80°45'33.69"E	33	0.00.000.02	00 13 31.33 L
			36	6°58'55.30"N	80°45'55.05"E
7	6°59'25.09"N	80°45'12.01"E	50	N 0505000	60 45 55.05 E
/	0 39 23.09 1	80 43 12.01 E			
			37	6°58'53.29"N	80°45'55.31"E
8	6°59'35.59"N	80°45'8.64"E			
			38	6°58'53.63"N	80°45'56.63"E
9	6°59'34.47"N	80°45'8.54"E			
			39	6°58'51.00"N	80°45'59.35"E
10	6°59'33.59"N	80°45'6.08"E		0 00 01.00 N	00 10 00 00 E
10	0 00 00.00 N	00 10 0.00 L	40		
11	C*C0120 44 11N		40	6°58'48.97"N	80°46'3.92"E
11	6°59'28.41"N	80°45'6.51"E			
			41	6°58'49.00"N	80°46'9.12"E
12	6°59'28.05"N	80°45'5.03"E			

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Automatic Answer

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				42		
13	6°59'28.51"N	80°45'4.61"E		42	6°58'47.21"N	80°46'9.39"E
15	0 39 28.31 N	80 43 4.01 L		40		
14	6°59'28.84"N	80°45'1.25"E		43	6°58'43.10"N	80°46'16.80"E
14	0 JJ 28.84 N	80 43 1.23 L				
15	6°59'26.84"N	80°44'58.15"E		44	6°58'41.54"N	80°46'20.20"E
15	0 J9 20.84 N	80 44 38.13 L		45		
16	6°59'25.89"N	80°44'58.68"E		45	6°58'41.37"N	80°46'22.74"E
10	0 J9 23.89 N	80 44 38.08 L		46		
17	6°59'23.43"N	80°44'59.56"E		46	6°58'39.53"N	80°46'25.10"E
1/	0 39 23.45 N	80 44 39.30 E		47		
18	6°59'23.43"N	80°45'1.59"E		47	6°58'35.50"N	80°46'27.37"E
10	0 39 23.43 N	80 45 1.59 E	A	10		
19	6°59'21.44"N	80°45'1.48"E	Along	48	6°58'35.19"N	80°46'29.15"E
19	0 39 21.44 N	60 43 1.46 E	Kandy-	10		
20	6°59'19.39"N	80°45'3.03"E	Nuwara	49	6°58'35.92"N	80°46'31.58"E
20	N 9219.39 N	80 45 3.03 E	Eliya			
21	6°59'17.11"N	80°45'5.18"E	main	50	6°58'35.99"N	80°46'33.53"E
21	0 59 17.11 N	80 45 5.18 E	road			
22				51	6°58'35.25"N	80°46'36.01"E
22	6°59'18.73"N	80°45'7.65"E				
22		00845142 02115		52	6°58'33.92"N	80°46'41.50"E
23	6°59'22.12"N	80°45'12.02"E				
24				53	6°58'36.16"N	80°46'42.08"E
24	6°59'15.92"N	80°45'17.73"E				
				54	6°58'39.43"N	80°46'45.61"E
25	6°59'3.15"N	80°45'32.61"E				
				55	6°58'39.78"N	80°46'49.25"E
26	6°59'2.26"N	80°45'32.68"E				
				56	6°58'36.89"N	80°46'55.61"E
27	6°59'1.54"N	80°45'31.89"E				
				57	6°58'40.11"N	80°47'2.48"E
28	6°59'0.95"N	80°45'31.90"E				
				58	6°58'38.02"N	80°47'7.50"E
29	6°58'58.00"N	80°45'36.62"E				

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Forest Zone- 02

r					1
1	6°56'43.91"N	80°48'38.67"E	41	6°57'47.74"N	80°47'48.31"E
2	6°56'45.88"N	80°48'42.04"E	42	6°57'48.27"N	80°47'47.47"E
3	6°56'49.06"N	80°48'40.30"E	43	6°57'45.51"N	80°47'45.23"E
4	6°56'47.98"N	80°48'43.11"E	44	6°57'46.41"N	80°47'39.41"E
5	6°56'48.08"N	80°48'44.72"E	45	6°57'44.46"N	80°47'37.69"E
6	6°56'49.60"N	80°48'45.34"E	46	6°57'39.29"N	80°47'35.33"E
7	6°56'50.38"N	80°48'47.11"E	47	6°57'35.41"N	80°47'33.51"E
8	6°56'46.88"N	80°48'49.27"E	48	6°57'29.11"N	80°47'42.31"E
9	6°56'54.06"N	80°48'52.79"E	49	6°57'28.61"N	80°47'50.49"E
10	6°57'0.29"N	80°48'54.98"E	50	6°57'24.35"N	80°47'48.48"E
11	6°57'4.01"N	80°48'54.77"E	51	6°57'23.66"N	80°47'49.21"E
12	6°57'8.87"N	80°48'51.95"E	52	6°57'26.71"N	80°47'53.23"E
12	6°57'9.18"N	80°48'49.16"E	53	6°57'28.86"N	80°47'58.53"E
13	6°57'12.85"N	80°48'43.53"E	54	6°57'32.98"N	80°47'58.11"E
14	0 J/ 12.03 N	00 40 43.33 E			

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	T	r		r	
15	6°57'17.11"N	80°48'40.27"E	55	6°57'27.51"N	80°48'3.22"E
16	6°57'21.53"N	80°48'37.78"E	56	6°57'22.15"N	80°48'13.19"E
17	6°57'22.47"N	80°48'35.44"E	57	6°57'19.11"N	80°48'20.52"E
18	6°57'21.43"N	80°48'32.91"E	58	6°57'13.77"N	80°48'20.85"E
19	6°57'27.14"N	80°48'29.34"E	59	6°57'9.26"N	80°48'25.29"E
20	6°57'27.95"N	80°48'30.62"E	60	6°57'3.60"N	80°48'25.32"E
21	6°57'29.81"N	80°48'30.86"E	61	6°57'2.61"N	80°48'28.31"E
22	6°57'31.23"N	80°48'25.38"E	62	6°56'59.25"N	80°48'29.24"E
23	6°57'33.34"N	80°48'24.97"E	63	6°56'59.02"N	80°48'31.45"E
24	6°57'34.52"N	80°48'22.02"E	64	6°57'1.28"N	80°48'36.82"E
25	6°57'32.54"N	80°48'20.60"E	65	6°56'56.28"N	80°48'42.07"E
26	6°57'32.99"N	80°48'19.98"E	66	6°56'55.78"N	80°48'41.26"E
27	6°57'35.07"N	80°48'19.10"E	67	6°56'55.98"N	80°48'39.24"E
28	6°57'34.03"N	80°48'14.49"E	68	6°56'58.80"N	80°48'35.07"E
29	6°57'37.37"N	80°48'14.86"E	69	6°56'57.46"N	80°48'34.05"E

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			-		
30	6°57'41.67"N	80°48'13.75"E	70	6°56'53.00"N	80°48'36.31"E
31	6°57'43.22"N	80°48'21.76"E	71	6°56'51.60"N	80°48'35.33"E
32	6°57'44.50"N	80°48'22.32"E	72	6°56'54.98"N	80°48'29.65"E
33	6°57'47.92"N	80°48'19.60"E	73	6°56'58.94"N	80°48'22.82"E
34	6°57'51.46"N	80°48'20.69"E	74	6°56'52.75"N	80°48'22.88"E
35	6°57'53.02"N	80°48'11.49"E	75	6°56'50.01"N	80°48'26.92"E
36	6°58'1.38"N	80°48'10.74"E	76	6°56'48.81"N	80°48'25.66"E
37	6°57'59.46"N	80°47'56.49"E	77	6°56'48.17"N	80°48'29.79"E
38	6°58'1.77"N	80°47'50.21"E	78	6°56'43.93"N	80°48'31.61"E
39	6°57'59.01"N	80°47'44.22"E	79	6°56'46.98"N	80°48'32.88"E
			80	6°56'45.39"N	80°48'36.47"E
40	6°57'49.74"N	80°47'50.19"E			

Forest Zone- 03

2	6°56'21.00"N	80°47'18.42"E	47	6°56'4.35"N	80°48'36.42"E
3	6°56'40.98"N	80°47'34.08"E	48	6°56'10.17"N	80°48'29.03"E
4	6°56'40.16"N	80°47'41.29"E	49	6°56'13.85"N	80°48'24.13"E

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Greater Nuwara Eliya Development Plan 2022-2032

-	1		r	1	
5	6°56'36.08"N	80°47'39.46"E	50	6°56'15.87"N	80°48'20.24"E
6	6°56'33.49"N	80°47'41.68"E	51	6°56'22.46"N	80°48'12.05"E
7	6°56'24.01"N	80°47'52.92"E	52	6°56'23.54"N	80°48'8.09"E
8	6°56'23.52"N	80°47'55.90"E	53	6°56'19.72"N	80°48'2.02"E
9	6°56'27.71"N	80°47'56.48"E	54	6°56'18.64"N	80°47'58.93"E
10	6°56'34.28"N	80°47'57.87"E	55	6°56'12.91"N	80°47'54.78"E
11	6°56'37.02"N	80°48'2.99"E	56	6°56'6.60"N	80°47'54.07"E
12	6°56'42.15"N	80°47'56.37"E	57	6°56'3.27"N	80°47'52.12"E
13	6°56'51.13"N	80°47'43.29"E	58	6°55'57.90"N	80°47'52.03"E
14	6°56'53.86"N	80°47'42.55"E	59	6°55'55.73"N	80°47'53.56"E
15	6°56'58.08"N	80°47'46.31"E	60	6°55'52.71"N	80°47'58.17"E
16	6°56'59.71"N	80°47'46.63"E	61	6°55'50.04"N	80°48'9.25"E
17	6°57'2.01"N	80°47'45.66"E	62	6°55'49.71"N	80°48'18.31"E
18	6°57'3.24"N	80°47'47.10"E	63	6°55'52.15"N	80°48'25.08"E
19	6°57'2.70"N	80°47'48.08"E	64	6°55'54.00"N	80°48'28.25"E

ก้าวให้สายสายสายเหลือเหล่าที่มีคาการการที่สายสายสายก็การการการการที่ได้สาที่การให้สายสายสายสายสายการการการการที

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Greater Nuwara Eliya Development Plan 2022-2032

	1				1
20	6°57'4.02"N	80°47'49.54"E	65	6°55'54.01"N	80°48'32.44"E
21	6°57'5.35"N	80°47'49.66"E	66	6°55'50.76"N	80°48'34.47"E
22	6°57'5.95"N	80°47'50.56"E	67	6°55'49.13"N	80°48'38.33"E
23	6°57'4.80"N	80°47'55.18"E	68	6°55'29.39"N	80°48'39.89"E
24	6°57'1.62"N	80°47'56.30"E	69	6°55'7.54"N	80°48'35.86"E
25	6°57'0.33"N	80°47'58.18"E	70	6°55'7.76"N	80°48'21.20"E
26	6°57'0.49"N	80°48'0.73"E	71	6°55'10.49"N	80°48'12.08"E
27	6°56'58.20"N	80°48'4.18"E	72	6°55'14.00"N	80°47'52.61"E
28	6°56'57.17"N	80°48'3.97"E	73	6°55'15.47"N	80°47'53.52"E
29	6°56'57.76"N	80°48'2.11"E	74	6°55'21.06"N	80°47'53.06"E
30	6°56'51.50"N	80°48'3.15"E	75	6°55'24.45"N	80°47'54.60"E
31	6°56'49.53"N	80°48'5.67"E	76	6°55'25.86"N	80°47'57.75"E
32	6°56'49.65"N	80°48'8.24"E	77	6°55'29.19"N	80°47'52.19"E
33	6°56'47.47"N	80°48'14.05"E	78	6°55'33.37"N	80°47'50.56"E
34	6°56'45.85"N	80°48'17.81"E	79	6°55'36.70"N	80°47'53.75"E

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35	6°56'44.56"N	80°48'18.69"E	80	6°55'39.60"N	80°47'50.77"E
36	6°56'42.58"N	80°48'24.37"E	81	6°55'41.56"N	80°47'50.27"E
37	6°56'38.68"N	80°48'35.81"E	82	6°55'41.59"N	80°47'45.92"E
38	6°56'34.38"N	80°48'48.79"E	83	6°55'40.12"N	80°47'44.10"E
39	6°56'16.24"N	80°48'52.04"E	84	6°55'40.25"N	80°47'42.16"E
40	6°55'54.29"N	80°48'42.71"E	85	6°55'41.48"N	80°47'36.65"E
41	6°55'56.75"N	80°48'39.41"E	86	6°55'43.18"N	80°47'29.91"E
42	6°55'59.03"N	80°48'39.31"E	87	6°55'45.37"N	80°47'29.55"E
43	6°56'0.22"N	80°48'38.55"E	88	6°55'47.07"N	80°47'23.24"E
44	6°56'0.25"N	80°48'37.81"E	89	6°55'51.67"N	80°47'22.71"E
45	6°56'1.80"N	80°48'36.30"E	90	6°55'54.00"N	80°47'17.46"E
46	6°56'3.25"N	80°48'36.82"E	91	6°55'56.85"N	80°47'11.38"E
			92	6°55'59.09"N	80°47'7.01"E
			93	6°55'59.60"N	80°47'4.73"E

Forest Zone- 04

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1	6°57'52.71"N	80°46'32.18"E	21	6°57'59.43"N	80°46'47.49"E
2	6°57'55.36"N	80°46'36.64"E	22	6°57'58.36"N	80°46'48.31"E
3	6°58'0.90"N	80°46'28.02"E	23	6°57'57.78"N	80°46'48.03"E
4	6°58'5.65"N	80°46'29.15"E	24	6°57'55.05"N	80°46'49.47"E
5	6°58'6.23"N	80°46'32.21"E	25	6°57'53.91"N	80°46'49.34"E
6	6°58'7.55"N	80°46'34.79"E	26	6°57'50.67"N	80°46'46.66"E
7	6°58'9.98"N	80°46'35.47"E	27	6°57'48.62"N	80°46'46.35"E
8	6°58'10.89"N	80°46'38.23"E	28	6°57'46.91"N	80°46'47.35"E
9	6°58'10.25"N	80°46'41.97"E	29	6°57'46.64"N	80°46'47.35"E
10	6°58'10.90"N	80°46'42.66"E	30	6°57'45.84"N	80°46'47.78"E
11	6°58'9.63"N	80°46'44.59"E	31	6°57'45.65"N	80°46'48.12"E
12	6°58'9.08"N	80°46'44.80"E	32	6°57'44.67"N	80°46'48.21"E
13	6°58'8.80"N	80°46'45.25"E	33	6°57'44.22"N	80°46'47.08"E
14	6°58'8.76"N	80°46'45.56"E	34	6°57'43.20"N	80°46'46.57"E
15	6°58'7.66"N	80°46'45.90"E	35	6°57'43.03"N	80°46'45.73"E

16	6°58'7.04"N	80°46'45.65"E	36	6°57'42.99"N	80°46'44.03"E
17	6°58'6.81"N	80°46'46.19"E	37	6°57'43.09"N	80°46'43.57"E
18	6°58'5.00"N	80°46'46.87"E	38	6°57'44.80"N	80°46'43.94"E
19	6°58'2.74"N	80°46'46.42"E	39	6°57'49.46"N	80°46'41.09"E
20	6°58'1.01"N	80°46'47.46"E	40	6°57'51.08"N	80°46'38.10"E
			41	6°57'50.56"N	80°46'35.42"E

Forest Zone- 05

			11	6°59'24.72"N	80°44'52.80"E	
1	6°58'57.09"N	80°44'49.05"E	11	0 39 24.72 N	80 44 J2.80 L	
			12	6°59'28.05"N	80°44'57.06"E	Toppass junction
2	6°58'59.82"N	80°44'46.91"E				
			13	6°59'23.43"N	80°44'59.56"E	NE Kandy road
3	6°59'1.35"N	80°44'44.77"E				
			14	6°59'19.30"N	80°45'0.63"E	
4	6°59'2.73"N	80°44'42.82"E				
			15	6°59'15.71"N	80°45'1.57"E	
5	6°59'8.59"N	80°44'43.22"E				
			16	6°59'11.53"N	80°44'57.97"E	
6	6°59'16.91"N	80°44'43.47"E				
			17	6°59'4.62"N	80°44'58.70"E	
7	6°59'27.15"N	80°44'43.35"E				
			18	6°59'2.34"N	80°44'55.84"E	
8	6°59'27.90"N	80°44'44.47"E				
			19	6°58'59.61"N	80°44'54.77"E	
9	6°59'24.84"N	80°44'45.40"E				

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			20	6°58'57.80"N	80°44'51.94"E	
10	6°59'22.64"N	80°44'48.16"E				

Forest Zone- 06

1	6°56'52.40"N	80°45'4.34"E	49	6°58'40.33"N	80°45'14.58"E	
2	6°56'53.08"N	80°44'40.30"E	50	6°58'42.97"N	80°45'16.52"E	
			51	6°58'43.44"N	80°45'18.52"E	
3	6°57'0.04"N	80°44'31.35"E				
4	6°57'1.99"N	80°44'18.56"E	52	6°58'41.49"N	80°45'20.96"E	
5	6°57'9.70"N	80°44'9.69"E	53	6°58'40.00"N	80°45'22.20"E	
6	6°57'6.40"N	80°44'2.65"E	54	6°58'39.91"N	80°45'24.46"E	
7	6°57'6.93"N	80°43'58.04"E	55	6°58'40.35"N	80°45'28.20"E	
8	6°57'5.31"N	80°43'56.16"E	56	6°58'40.69"N	80°45'30.77"E	
			57	6°58'39.36"N	80°45'34.07"E	
9	6°57'5.06"N	80°43'51.20"E				
10	6°57'8.45"N	80°43'48.05"E	58	6°58'36.33"N	80°45'32.58"E	
11	6°57'16.17"N	80°43'43.97"E	59	6°58'34.43"N	80°45'33.96"E	
12	6°57'33.30"N	80°43'37.45"E	60	6°58'33.13"N	80°45'37.28"E	
13	6°57'35.78"N	80°43'32.45"E	61	6°58'29.18"N	80°45'37.72"E	
14	6°57'33.33"N	80°43'26.89"E	62	6°58'23.97"N	80°45'37.70"E	
15	6°57'34.40"N	80°43'9.48"E	63	6°58'19.07"N	80°45'38.79"E	
1.5	0 37 34.40 1	00 43 J.40 L	64	6°58'17.88"N	80°45'40.39"E	
16	6°57'32.94"N	80°42'56.38"E		0 30 17.00 N		
17	6°57'35.05"N	80°42'25.54"E	65	6°58'17.83"N	80°45'42.17"E	
18	6°57'45.01"N	80°42'26.07"E	66	6°58'15.13"N	80°45'43.01"E	
19	6°57'48.23"N	80°42'51.04"E	67	6°58'12.52"N	80°45'42.17"E	
20	6°57'51.22"N	80°43'10.17"E	68	6°58'8.22"N	80°45'42.41"E	



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21	6°57'56.57"N	80°43'8.92"E	69	6°58'6.60"N	80°45'41.53"E	
22	6°58'2.19"N	80°43'9.95"E	70	6°58'2.31"N	80°45'40.67"E	
23	6°57'54.20"N	80°43'16.47"E	71	6°57'58.03"N	80°45'39.82"E	
24	6°57'48.78"N	80°43'23.46"E	72	6°57'56.35"N	80°45'37.55"E	
25	6°57'45.96"N	80°43'35.31"E	73	6°57'50.85"N	80°45'35.96"E	
26	6°57'49.33"N	80°43'44.80"E	74	6°57'46.63"N	80°45'35.71"E	
20	6°57'46.08"N	80°43'44.80°E	75	6°57'41.76"N	80°45'39.35"E	
	6°57'37.59"N	80°44'0.63"E	76	6°57'38.13"N	80°45'43.91"E	
28	6°57'39.94"N		77	6°57'30.02"N	80°45'48.65"E	
29		80°44'20.48"E	78	6°57'26.29"N	80°45'46.37"E	
30	6°57'42.45"N	80°44'35.56"E	79	6°57'19.04"N	80°45'54.78"E	
31	6°57'46.78"N	80°44'43.66"E	80	6°57'14.87"N	80°45'59.19"E	
32	6°57'59.14"N	80°44'48.95"E	81	6°57'11.02"N	80°46'3.30"E	
33	6°58'7.15"N	80°44'53.82"E	82	6°57'3.07"N	80°46'0.01"E	
34	6°58'12.32"N	80°44'53.38"E	83	6°56'56.53"N	80°45'54.66"E	
35	6°58'14.03"N	80°44'55.97"E	84	6°56'56.08"N	80°45'53.80"E	
36	6°58'16.33"N	80°45'11.11"E	85	6°56'54.23"N	80°45'51.75"E	
37	6°58'17.18"N	80°45'17.23"E	86	6°56'54.49"N	80°45'42.80"E	
38	6°58'18.34"N	80°45'25.18"E	87	6°56'53.55"N	80°45'41.19"E	
39	6°58'24.04"N	80°45'22.77"E	88	6°56'53.47"N	80°45'39.03"E	
40	6°58'26.36"N	80°45'22.42"E	89	6°56'52.35"N	80°45'37.92"E	
41	6°58'27.48"N	80°45'21.29"E	90	6°56'51.50"N	80°45'32.63"E	
42	6°58'29.20"N	80°45'18.87"E	91	6°56'51.91"N	80°45'30.34"E	
43	6°58'31.17"N	80°45'17.27"E	51	0 20 21.21 10	00 4J 30.34 E	

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			92	6°56'50.98"N	80°45'27.58"E	
44	6°58'32.13"N	80°45'17.07"E				
			93	6°56'50.14"N	80°45'20.73"E	
45	6°58'34.20"N	80°45'18.54"E				
						Hatton NE
			94	6°56'52.12"N	80°45'15.81"E	Main road
46	6°58'34.84"N	80°45'17.00"E				
			95	6°56'45.73"N	80°45'7.48"E	
47	6°58'36.83"N	80°45'16.07"E				
			96	6°56'48.13"N	80°45'5.22"E	
48	6°58'39.03"N	80°45'15.86"E				

Forest Zone -07

		1	1	r		
1	6°55'19.44"N	80°47'24.53"E		15	6°55'39.09"N	80°47'28.01"E
2	6°55'21.64"N	80°47'20.23"E		16	6°55'37.62"N	80°47'29.83"E
3	6°55'21.82"N	80°47'17.25"E		17	6°55'37.03"N	80°47'31.99"E
4	6°55'22.46"N	80°47'14.98"E		18	6°55'37.75"N	80°47'33.01"E
5	6°55'23.92"N	80°47'14.76"E		19	6°55'36.54"N	80°47'35.05"E
6	6°55'25.04"N	80°47'15.91"E		20	6°55'30.22"N	80°47'34.46"E
7	6°55'25.09"N	80°47'18.43"E		21	6°55'29.10"N	80°47'32.95"E
8	6°55'26.14"N	80°47'22.35"E		22	6°55'27.84"N	80°47'29.51"E
9	6°55'27.36"N	80°47'22.56"E		23	6°55'26.59"N	80°47'29.62"E
10	6°55'30.14"N	80°47'21.60"E	NE -	24	6°55'23.08"N	80°47'33.81"E
11	6°55'32.80"N	80°47'18.84"E	Ambewela Main road	25	6°55'21.83"N	80°47'31.51"E
12	6°55'35.87"N	80°47'17.49"E		26	6°55'18.48"N	80°47'31.94"E
13	6°55'37.34"N	80°47'21.73"E		27	6°55'19.20"N	80°47'28.78"E
13	6°55'40.00"N	80°47'23.73"E		28	6°55'20.06"N	80°47'24.82"E
14	0.00 10	00 47 23.73 E		1		

Forest Zone- 08

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1	6°55'30.46"N	80°45'49.55"E	33	6°56'54.13"N	80°45'52.55"E
2	6°55'40.54"N	80°45'33.89"E	34	6°56'55.35"N	80°45'54.09"E
3	6°55'48.99"N	80°45'17.14"E	35	6°56'58.09"N	80°45'55.69"E
4	6°55'52.63"N	80°45'3.62"E	36	6°56'57.80"N	80°45'56.70"E
5	6°55'54.67"N	80°44'58.53"E	37	6°56'57.90"N	80°45'59.68"E
			38	6°56'55.40"N	80°46'4.24"E
6	6°55'59.71"N	80°44'55.81"E	39	6°56'54.95"N	80°46'5.53"E
7	6°56'2.76"N	80°44'56.46"E	40	6°56'53.33"N	80°46'5.81"E
8	6°56'1.28"N	80°45'3.37"E	41	6°56'49.13"N	80°46'4.95"E
9	6°56'28.59"N	80°45'4.16"E	42	6°56'45.70"N	80°46'5.46"E
10	6°56'31.66"N	80°45'5.73"E	43	6°56'42.87"N	80°46'6.68"E
11	6°56'32.41"N	80°45'6.88"E	44	6°56'42.11"N	80°46'8.29"E
12	6°56'34.41"N	80°45'7.59"E	45	6°56'40.19"N	80°46'9.89"E
13	6°56'35.58"N	80°45'8.82"E	46	6°56'37.90"N	80°46'8.84"E
14	6°56'37.31"N	80°45'9.58"E	47	6°56'33.56"N	80°46'4.00"E
15	6°56'37.82"N	80°45'10.34"E		6°56'30.31"N	80°46'6.89"E
16	6°56'37.74"N	80°45'11.33"E	48		
17	6°56'42.23"N	80°45'10.71"E	49	6°56'31.16"N	80°46'11.51"E
18	6°56'44.96"N	80°45'12.68"E	50	6°56'29.00"N	80°46'16.44"E
19	6°56'44.65"N	80°45'13.60"E	51	6°56'25.57"N	80°46'14.85"E
20	6°56'45.74"N	80°45'17.32"E	52	6°56'22.76"N	80°46'15.43"E
21	6°56'48.54"N	80°45'18.95"E	53	6°56'22.20"N	80°46'19.60"E
			54	6°56'21.26"N	80°46'21.77"E
22	6°56'49.54"N	80°45'20.96"E	55	6°56'19.32"N	80°46'22.73"E
23	6°56'49.29"N	80°45'22.35"E			

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24	6°56'49.39"N	80°45'28.38"E	56	6°56'18.99"N	80°46'26.72"E
25	6°56'49.90"N	80°45'33.61"E	57	6°56'14.78"N	80°46'28.00"E
26	6°56'49.10"N	80°45'35.99"E	58	6°56'11.11"N	80°46'24.67"E
27	6°56'50.56"N	80°45'37.08"E	59	6°56'6.99"N	80°46'17.22"E
28	6°56'50.59"N	80°45'38.63"E	60	6°56'2.82"N	80°46'9.90"E
29	6°56'48.29"N	80°45'44.06"E	61	6°55'59.37"N	80°46'7.72"E
30	6°56'50.66"N	80°45'46.13"E	62	6°55'53.07"N	80°46'6.32"E
31	6°56'51.61"N	80°45'51.91"E	63	6°55'36.80"N	80°46'9.89"E
32	6°56'52.26"N	80°45'52.44"E	64	6°55'32.37"N	80°46'1.42"E

High density Mix Zone

			Near to the bridge at			
			Ravce Course	57	6°58'26.28"N	80°46'22.31"E
1	6°57'47.55"N	80°46'18.53"E	Road			
				58	6°58'26.64"N	80°46'25.69"E
2	6°57'48.02"N	80°46'17.06"E				
				59	6°58'29.67"N	80°46'29.83"E
3	6°57'57.06"N	80°46'5.04"E	Edge of the			
			Race Course	60	6°58'27.73"N	80°46'30.74"E
4	6°57'59.04"N	80°46'2.91"E	Ground			
			Ner to the			
			Dharmapala	61	6°58'27.13"N	80°46'36.02"E
5	6°58'3.41"N	80°46'2.99"E	Roundabout			



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6	6°58'3.51"N	80°46'4.14"E		62	6°58'32.23"N	80°46'42.26"E
7	6°58'1.79"N	80°46'8.48"E	Along Ragala NE Road	63	6°58'33.96"N	80°46'44.48"E
8	6°58'0.35"N	80°46'10.39"E	Near to Park Road Junction	64	6°58'36.25"N	80°46'49.67"E
9	6°58'18.10"N	80°46'6.61"E	Along Park Road	65	6°58'34.06"N	80°46'52.66"E
10	6°58'17.85"N	80°46'5.54"E	Boundary of	66	6°58'31.39"N	80°46'57.09"E
11	6°58'18.47"N	80°46'4.96"E	the Victoria Park	67	6°58'32.05"N	80°47'2.31"E
12	6°58'17.77"N	80°46'0.66"E	Near to the Bus stand	68	6°58'25.39"N	80°47'4.56"E
13	6°58'23.44"N	80°45'55.15"E	Near to the Sampath bank	69	6°58'18.95"N	80°47'8.51"E
14	6°58'24.57"N	80°45'53.54"E		70	6°58'16.84"N	80°47'8.79"E
15	6°58'25.96"N	80°45'54.62"E		71	6°58'16.84"N	80°47'15.33"E
16	6°58'27.39"N	80°45'54.89"E		72	6°58'11.85"N	80°47'14.29"E
17	6°58'28.23"N	80°45'56.16"E	Golf Course	73	6°58'9.56"N	80°47'11.87"E
18	6°58'28.03"N	80°45'56.79"E	boundaary	74	6°58'7.50"N	80°47'10.18"E
19	6°58'27.67"N	80°45'56.97"E		75	6°58'7.99"N	80°47'9.06"E
20	6°58'27.23"N	80°45'57.56"E		76	6°58'8.06"N	80°47'6.97"E
21	6°58'27.40"N	80°45'58.29"E		77	6°58'7.25"N	80°47'6.16"E
22	6°58'29.66"N	80°45'58.89"E	New Kandy	78	6°58'2.28"N	80°47'5.18"E
23	6°58'30.10"N	80°45'58.74"E	Road	79	6°58'2.44"N	80°46'58.94"E
24	6°58'31.67"N	80°45'53.85"E		80	6°58'5.82"N	80°46'54.10"E
25	6°58'31.37"N	80°45'52.97"E	Along Stream	81	6°58'6.68"N	80°46'50.07"E
26	6°58'31.62"N	80°45'52.17"E	flows behnd the PWD	82	6°58'3.09"N	80°46'48.38"E
27	6°58'32.24"N	80°45'51.29"E	housing	83	6°57'57.49"N	80°46'55.13"E
28	6°58'32.33"N	80°45'50.85"E		84	6°57'53.59"N	80°46'51.77"E



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Greater Nuwara Eliya Development Plan 2022-2032

29	6°58'32.66"N	80°45'50.76"E		85	6°57'56.86"N	80°46'49.78"E
30	6°58'33.42"N	80°45'50.15"E		86	6°57'59.35"N	80°46'47.48"E
31	6°58'34.70"N	80°45'50.53"E		87	6°58'0.96"N	80°46'47.40"E
				88	6°58'2.69"N	80°46'46.39"E
32	6°58'35.31"N	80°45'49.80"E		89	6°58'4.94"N	80°46'46.83"E
33	6°58'36.82"N	80°45'50.21"E		09	0 38 4.94 1	80 40 40.85 E
34	6°58'37.30"N	80°45'49.78"E		90	6°58'6.74"N	80°46'46.15"E
35	6°58'41.21"N	80°45'50.39"E		91	6°58'6.99"N	80°46'45.66"E
36	6°58'41.83"N	80°45'50.17"E	•	92	6°58'7.57"N	80°46'45.89"E
37	6°58'43.28"N	80°45'47.66"E	Along St.	93	6°58'8.72"N	80°46'45.52"E
38	6°58'44.67"N	80°45'47.19"E	Andrews Road	94	6°58'8.77"N	80°46'45.22"E
				95	6°58'8.77"N	80°46'45.22"E
39	6°58'45.60"N	80°45'45.80"E	-	96	6°58'9.05"N	80°46'44.81"E
40	6°58'45.40"N	80°45'47.84"E		50	0.000.000	
41	6°58'44.13"N	80°45'49.60"E		97	6°58'9.57"N	80°46'44.60"E
42	6°58'44.05"N	80°45'51.26"E		98	6°58'10.87"N	80°46'42.57"E
43	6°58'43.01"N	80°45'54.81"E		99	6°58'10.18"N	80°46'41.91"E
44	6°58'42.45"N	80°45'57.19"E		100	6°58'10.82"N	80°46'38.18"E
45	6°58'41.24"N	80°45'57.76"E		101	6°58'7.49"N	80°46'34.74"E
46	6°58'40.32"N	80°46'0.61"E		102	6°58'5.59"N	80°46'29.11"E
47	6°58'38.52"N	80°46'6.30"E		103	6°58'1.12"N	80°46'28.01"E
48	6°58'39.22"N	80°46'8.08"E		104	6°57'53.11"N	80°46'25.00"E
49	6°58'36.30"N	80°46'12.60"E		105	6°57'54.90"N	80°46'20.92"E
50	6°58'30.54"N	80°46'17.99"E		106	6°57'55.59"N	80°46'20.53"E
51	6°58'28.30"N	80°46'13.96"E		107	6°57'55.28"N	80°46'19.68"E

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52	6°58'24.40"N	80°46'17.31"E	108	6°57'59.50"N	80°46'19.07"E
53	6°58'23.52"N	80°46'19.21"E	109	6°58'0.00"N	80°46'18.59"E
54	6°58'24.44"N	80°46'19.36"E	110	6°57'57.57"N	80°46'16.78"E
55	6°58'26.22"N	80°46'18.19"E	111	6°57'55.25"N	80°46'16.57"E
56	6°58'28.46"N	80°46'19.95"E	112	6°57'52.48"N	80°46'18.69"E

High Density Tourism Zone

MANDALASSIC TRANSPORT

				16	6°57'50.41"N	80°45'38.04"E
1	6°57'39.81"N	80°46'3.07"E				
			Along NE	17	6°57'48.30"N	80°45'37.83"E
2	6°57'52.14"N	80°46'1.48"E	Badulla			
			Main	18	6°57'45.37"N	80°45'39.84"E
3	6°58'3.39"N	80°46'2.93"E	Road			
				19	6°57'45.13"N	80°45'42.38"E
4	6°58'4.63"N	80°45'56.27"E				
			Along	20	6°57'45.65"N	80°45'44.67"E
5	6°58'9.75"N	80°45'53.12"E	Grand			
			Hotel	21	6°57'42.14"N	80°45'46.07"E
6	6°58'15.70"N	80°45'49.90"E	Road			
				22	6°57'39.43"N	80°45'47.54"E
7	6°58'14.30"N	80°45'47.83"E				

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			23	6°57'34.60"N	80°45'51.30"E
8	6°58'13.44"N	80°45'44.56"E			
			24	6°57'36.40"N	80°45'55.85"E
9	6°58'9.70"N	80°45'43.74"E			
			25	6°57'35.35"N	80°45'57.02"E
10	6°58'3.71"N	80°45'43.56"E			
			26	6°57'36.95"N	80°45'58.15"E
11	6°58'2.78"N	80°45'43.96"E			
			27	6°57'36.77"N	80°45'58.89"E
12	6°57'56.86"N	80°45'40.82"E			
			28	6°57'37.96"N	80°46'0.09"E
13	6°57'55.45"N	80°45'39.10"E			
			29	6°57'38.05"N	80°46'1.48"E
14	6°57'52.20"N	80°45'39.99"E			
			30	6°57'38.80"N	80°46'2.59"E
15	6°57'50.82"N	80°45'39.38"E			

Low Density Residential Zone- 01

1	6°59'16.81"N	80°45'5.27"E	
2	6°59'20.28"N	80°45'2.77"E	
			Along Kandy NE Main
3	6°59'23.26"N	80°45'1.66"E	Road
4	6°59'23.42"N	80°44'59.52"E	E
5	6°59'22.20"N	80°44'59.42"E	E
6	6°59'19.31"N	80°45'0.57"E	



7	6°59'17.17"N	80°45'1.20"E	
8	6°59'15.04"N	80°45'1.78"E	
9	6°59'16.01"N	80°45'3.56"E	
10	6°59'15.84"N	80°45'3.78"E	
11	6°59'16.16"N	80°45'4.64"E	

Low Density Residetial Zone- 02

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1	6°58'16.97"N	80°47'24.61"E	46	6°59'2.70"N	80°45'24.81"E
2	6°58'18.28"N	80°47'21.90"E	47	6°58'58.88"N	80°45'22.54"E
3	6°58'24.81"N	80°47'17.66"E	48	6°58'56.99"N	80°45'20.85"E
4	6°58'37.19"N	80°47'13.45"E	49	6°58'55.46"N	80°45'21.81"E
5	6°58'38.59"N	80°47'12.24"E	50	6°59'2.26"N	80°45'27.07"E
6	6°58'36.50"N	80°47'9.43"E	51	6°59'2.09"N	80°45'27.85"E
7	6°58'35.80"N	80°47'6.28"E	52	6°59'1.49"N	80°45'27.95"E
8	6°58'37.92"N	80°47'7.46"E	53	6°59'0.24"N	80°45'29.88"E
9	6°58'40.02"N	80°47'2.53"E	54	6°58'59.89"N	80°45'31.25"E
10	6°58'36.79"N	80°46'55.52"E	55	6°58'55.14"N	80°45'36.36"E

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11	6°58'36.94"N	80°46'53.66"E	56	6°58'55.46"N	80°45'37.02"E
12	6°58'38.02"N	80°46'51.26"E	57	6°58'54.57"N	80°45'39.47"E
13	6°58'39.67"N	80°46'49.20"E	58	6°58'55.09"N	80°45'43.19"E
14	6°58'39.33"N	80°46'45.61"E	59	6°58'54.86"N	80°45'44.68"E
15	6°58'36.10"N	80°46'42.05"E	60	6°58'55.35"N	80°45'49.96"E
16	6°58'33.80"N	80°46'41.52"E	61	6°58'54.72"N	80°45'52.34"E
17	6°58'35.15"N	80°46'37.31"E	62	6°58'52.83"N	80°45'53.02"E
18	6°58'35.90"N	80°46'33.45"E	63	6°58'50.36"N	80°45'56.11"E
19	6°58'35.07"N	80°46'29.15"E	64	6°58'47.85"N	80°45'57.68"E
20	6°58'35.42"N	80°46'27.32"E	65	6°58'44.49"N	80°46'5.38"E
21	6°58'39.39"N	80°46'25.07"E	66	6°58'42.62"N	80°46'7.13"E
22	6°58'41.24"N	80°46'22.68"E	67	6°58'41.61"N	80°46'10.55"E
23	6°58'41.50"N	80°46'20.24"E	68	6°58'42.18"N	80°46'12.05"E
24	6°58'42.98"N	80°46'16.87"E	69	6°58'39.92"N	80°46'14.57"E
25	6°58'47.14"N	80°46'9.41"E	70	6°58'40.20"N	80°46'17.17"E
26	6°58'49.01"N	80°46'9.15"E	71	6°58'38.93"N	80°46'18.71"E

Greater Nuwara Eliya Development Plan 2022-2032

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27	6°58'48.88"N	80°46'3.83"E	72	6°58'36.80"N	80°46'19.50"E
28	6°58'50.94"N	80°45'59.29"E	73	6°58'33.00"N	80°46'23.82"E
29	6°58'51.94"N	80°45'58.61"E	74	6°58'32.57"N	80°46'25.88"E
30	6°58'52.34"N	80°45'57.54"E	75	6°58'33.84"N	80°46'27.57"E
31	6°58'53.52"N	80°45'56.63"E	76	6°58'32.92"N	80°46'33.37"E
32	6°58'53.18"N	80°45'55.28"E	77	6°58'32.99"N	80°46'39.25"E
33	6°58'55.23"N	80°45'54.96"E	78	6°58'31.89"N	80°46'41.83"E
34	6°58'55.78"N	80°45'51.56"E	79	6°58'32.23"N	80°46'42.26"E
35	6°58'56.56"N	80°45'44.03"E	80	6°58'32.08"N	80°46'43.74"E
36	6°58'56.37"N	80°45'41.97"E	81	6°58'34.23"N	80°46'44.50"E
37	6°58'57.17"N	80°45'40.47"E	82	6°58'36.31"N	80°46'49.64"E
38	6°58'55.77"N	80°45'39.42"E	83	6°58'32.66"N	80°46'53.38"E
39	6°58'56.93"N	80°45'36.73"E	84	6°58'32.66"N	80°47'1.47"E
40	6°58'57.92"N	80°45'36.63"E	85	6°58'25.49"N	80°47'4.54"E
41	6°59'0.92"N	80°45'31.88"E	86	6°58'18.29"N	80°47'8.90"E
42	6°59'1.50"N	80°45'31.88"E	87	6°58'16.90"N	80°47'8.76"E

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43	6°59'2.18"N	80°45'32.66"E	88	6°58'16.91"N	80°47'15.33"E
44	6°59'3.13"N	80°45'32.53"E	89	6°58'13.22"N	80°47'14.55"E
45	6°59'5.36"N	80°45'30.13"E	90	6°58'12.81"N	80°47'17.78"E
			91	6°58'14.46"N	80°47'22.07"E

Low Densidty Residential Zone- 03

Andrews Constant

1	6°57'47.71"N	80°47'47.17"E	21	6°58'20.75"N	80°47'41.14"E
2	6°57'48.16"N	80°47'47.46"E	22	6°58'19.96"N	80°47'35.62"E
3	6°57'47.62"N	80°47'48.28"E	23	6°58'20.27"N	80°47'32.32"E
4	6°57'48.49"N	80°47'49.09"E	24	6°58'18.37"N	80°47'31.24"E
5	6°57'49.63"N	80°47'50.13"E	25	6°58'17.04"N	80°47'24.67"E
6	6°57'54.34"N	80°47'47.79"E	26	6°58'14.45"N	80°47'22.10"E
7	6°57'58.80"N	80°47'44.25"E	27	6°58'12.74"N	80°47'17.83"E
8	6°57'58.96"N	80°47'43.41"E	28	6°58'13.13"N	80°47'14.59"E
9	6°57'54.54"N	80°47'39.83"E	29	6°58'10.60"N	80°47'12.93"E
10	6°57'56.01"N	80°47'37.22"E	30	6°58'6.32"N	80°47'17.88"E
11	6°57'58.88"N	80°47'35.24"E	31	6°58'5.20"N	80°47'20.39"E
12	6°58'2.51"N	80°47'31.23"E	32	6°58'5.36"N	80°47'22.67"E
13	6°58'3.47"N	80°47'30.84"E	33	6°58'6.19"N	80°47'23.31"E
14	6°58'4.08"N	80°47'35.10"E	 34	6°58'4.99"N	80°47'24.47"E
15	6°58'4.08"N	80°47'36.46"E	35	6°57'58.46"N	80°47'30.69"E
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Treb Arehinstein Artiste
16	6°58'7.57"N	80°47'36.27"E		36	6°57'53.47"N	80°47'38.34"E
17	6°58'10.48"N	80°47'39.68"E		37	6°57'50.63"N	80°47'43.34"E
18	6°58'15.19"N	80°47'39.93"E		38	6°57'48.95"N	80°47'44.68"E
19	6°58'18.03"N	80°47'44.05"E	NE- Udu			
20	6°58'20.34"N	80°47'44.44"E	Pussellawa Road			

			24		
1	6°57'44.46"N	80°47'37.69"E	24	6°58'7.34"N	80°47'6.20"E
2	6°57'45.98"N	80°47'39.08"E	25	6°58'2.33"N	80°47'5.20"E
3	6°57'47.26"N	80°47'38.58"E	26	6°58'2.44"N	80°46'58.94"E
4	6°57'49.71"N	80°47'37.50"E	27	6°57'56.98"N	80°46'59.35"E
5	6°57'51.97"N	80°47'35.26"E	28	6°57'59.23"N	80°47'2.53"E
6	6°57'54.02"N	80°47'32.66"E	29	6°57'56.06"N	80°47'6.73"E
7	6°57'54.15"N	80°47'31.36"E	30	6°57'54.79"N	80°47'9.40"E
8	6°57'55.45"N	80°47'30.93"E	31	6°57'56.68"N	80°47'12.36"E
9	6°57'55.98"N	80°47'29.49"E	32	6°57'58.35"N	80°47'15.56"E
10	6°57'55.95"N	80°47'28.66"E	33	6°57'55.64"N	80°47'20.56"E
11	6°57'57.35"N	80°47'27.22"E	34	6°57'56.03"N	80°47'21.07"E

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ก็ไม่ส่วนสายสมบรณที่ในการแขที่มีในสมบรณระกับและการสมได้ไม

12	6°57'58.13"N	80°47'25.54"E	35	6°57'54.96"N	80°47'23.07"E
13	6°57'58.96"N	80°47'23.93"E	36	6°57'53.69"N	80°47'23.76"E
14	6°58'1.45"N	80°47'23.03"E	37	6°57'53.19"N	80°47'25.03"E
15	6°58'2.27"N	80°47'19.91"E	38	6°57'52.37"N	80°47'25.15"E
16	6°58'4.54"N	80°47'18.09"E	39	6°57'52.22"N	80°47'25.58"E
17	6°58'4.18"N	80°47'17.08"E	40	6°57'54.09"N	80°47'27.56"E
18	6°58'4.68"N	80°47'16.29"E	41	6°57'54.13"N	80°47'29.00"E
19	6°58'5.77"N	80°47'15.82"E	42	6°57'52.48"N	80°47'30.79"E
20	6°58'9.12"N	80°47'12.85"E	43	6°57'46.74"N	80°47'31.80"E
21	6°58'9.34"N	80°47'11.59"E	44	6°57'47.36"N	80°47'33.70"E
22	6°58'7.51"N	80°47'10.22"E	45	6°57'45.96"N	80°47'35.78"E
23	6°58'8.08"N	80°47'6.95"E			

Andrewskie and Theman

			12	6°57'40.31"N	80°47'22.93"E
1	6°57'28.15"N	80°47'30.08"E			
			13	6°57'37.76"N	80°47'20.50"E
2	6°57'29.96"N	80°47'26.41"E			
			14	6°57'37.02"N	80°47'18.39"E
3	6°57'31.84"N	80°47'24.92"E			

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Automatic descent

4	6°57'33.68"N	80°47'20.57"E	15	6°57'33.86"N	80°47'17.37"E
5	6°57'36.16"N	80°47'23.59"E	16	6°57'30.63"N	80°47'19.89"E
6	6°57'35.48"N	80°47'29.80"E	17	6°57'28.63"N	80°47'19.87"E
7	6°57'33.37"N	80°47'32.56"E	18	6°57'26.29"N	80°47'21.80"E
8	6°57'39.15"N	80°47'35.23"E	19	6°57'22.42"N	80°47'24.15"E
9	6°57'39.69"N	80°47'31.19"E	20	6°57'22.03"N	80°47'24.98"E
10	6°57'40.61"N	80°47'29.20"E	21	6°57'22.15"N	80°47'26.76"E
11	6°57'40.02"N	80°47'28.68"E	22	6°57'25.11"N	80°47'28.61"E

1	6°56'57.48"N	80°45'54.74"E		22	6°56'37.34"N	80°45'9.64"E
2	6°56'54.22"N	80°45'51.75"E		23	6°56'37.69"N	80°45'11.26"E
3	6°56'53.68"N	80°45'49.65"E		24	6°56'42.12"N	80°45'10.66"E
4	6°56'54.23"N	80°45'46.26"E		25	6°56'44.87"N	80°45'12.70"E
5	6°56'54.31"N	80°45'42.69"E		26	6°56'44.61"N	80°45'13.59"E
6	6°56'53.54"N	80°45'41.27"E		27	6°56'45.71"N	80°45'17.27"E
7	6°56'53.37"N	80°45'38.97"E		28	6°56'48.48"N	80°45'18.94"E
8	6°56'52.33"N	80°45'37.96"E		29	6°56'49.47"N	80°45'20.93"E
9	6°56'51.70"N	80°45'35.38"E		30	6°56'49.20"N	80°45'22.37"E
10	6°56'51.47"N	80°45'32.62"E		31	6°56'49.33"N	80°45'28.27"E
11	6°56'51.86"N	80°45'30.37"E		32	6°56'49.92"N	80°45'33.58"E
12	6°56'50.10"N	80°45'20.82"E	Along	33	6°56'49.06"N	80°45'35.93"E
13	6°56'51.98"N	80°45'17.68"E	Hatton- NE	34	6°56'50.53"N	80°45'37.06"E
14	6°56'50.37"N	80°45'15.06"E	Main Road	35	6°56'50.56"N	80°45'38.61"E

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15	6°56'48.32"N	80°45'12.81"E	36	6°56'48.25"N	80°45'44.02"E
			37	6°56'50.60"N	80°45'46.10"E
16	6°56'47.58"N	80°45'10.06"E			
			38	6°56'50.95"N	80°45'49.62"E
17	6°56'45.76"N	80°45'7.27"E			
			39	6°56'51.58"N	80°45'51.96"E
18	6°56'40.78"N	80°45'4.46"E			
			40	6°56'54.07"N	80°45'52.56"E
19	6°56'36.27"N	80°45'4.89"E			
			41	6°56'55.32"N	80°45'54.11"E
20	6°56'31.86"N	80°45'5.85"E			
21	6°56'34.41"N	80°45'7.55"E			

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			20	6 °58'54.46"N	80°45'5.25"E
1	6°58'16.88"N	80°45'17.37"E			
2			21	6°58'58.22"N	80°45'3.33"E
2	6°58'18.39"N	80°45'25.38"E	22	6°59'2.31"N	80°45'0.65"E
3	6°58'25.97"N	80°45'22.69"E	22	0.552.51 1	80 43 0.03 L
			23	6°58'56.69"N	80°44'55.05"E
4	6°58'31.99"N	80°45'17.28"E			
5	6°58'34.09"N	80°45'18.78"E	24	6°58'55.71"N	80°44'51.70"E
5	0 38 34.03 N	80 43 18.78 L	25	6°58'52.65"N	80°44'48.86"E
6	6°58'34.72"N	80°45'17.20"E	23	0 50 52.05 1	00 44 40.00 L
			26	6°58'52.60"N	80°44'46.83"E
7	6°58'39.00"N	80°45'16.05"E			
8	6°58'41.44"N	80°45'14.44"E	27	6°58'51.66"N	80°44'45.82"E
0	0 36 41.44 N	60 43 14.44 E	28	6°58'49.74"N	80°44'45.76"E
9	6°58'42.05"N	80°45'14.89"E	20	0 50 45.74 1	00 44 45.70 L
			29	6°58'46.54"N	80°44'49.27"E
10	6°58'46.10"N	80°45'13.27"E			
11			30	6°58'41.13"N	80°44'50.80"E
11	6°58'46.21"N	80°45'11.68"E	21		
12	6°58'48.43"N	80°45'11.06"E	31	6°58'37.01"N	80°44'51.35"E
			32	6°58'36.93"N	80°44'54.20"E
13	6°58'49.40"N	80°45'11.91"E			
			33	6°58'33.68"N	80°44'58.29"E
14	6°58'50.43"N	80°45'11.00"E			
15	6°58'51.89"N	80°45'11.65"E	34	6°58'36.15"N	80°44'59.90"E
1.5	0 30 31.03 N	00 43 11.03 L	35	6°58'37.03"N	80°45'3.97"E
16	6°58'52.27"N	80°45'10.82"E			

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Materia

Automatric Annual And

			36	6°58'37.96"N	80°45'14.23"E
17	6°58'47.69"N	80°45'8.39"E			
			37	6°58'34.07"N	80°45'14.01"E
18	6°58'47.96"N	80°45'7.54"E			
			38	6°58'30.30"N	80°45'13.47"E
19	6°58'50.59"N	80°45'7.34"E			
			39	6°58'24.01"N	80°45'15.68"E

1	6°55'49.11"N	80°48'38.30"E	16	6°56'18.61"N	80°47'58.91"E
2	6°55'51.08"N	80°48'41.03"E	17	6°56'12.94"N	80°47'54.84"E
3	6°55'54.29"N	80°48'42.69"E	18	6°56'6.61"N	80°47'54.09"E
4	6°55'56.72"N	80°48'39.44"E	19	6°56'3.24"N	80°47'52.15"E
5	6°55'59.00"N	80°48'39.29"E	20	6°55'57.87"N	6°55'57.87"N
6	6°56'0.18"N	80°48'38.56"E	21	6°55'55.59"N	80°47'53.74"E
7	6°56'0.21"N	80°48'37.79"E	22	6°55'52.70"N	80°47'58.15"E
8	6°56'1.74"N	80°48'36.30"E	23	6°55'51.39"N	80°48'3.42"E
9	6°56'4.35"N	80°48'36.40"E	24	6°55'49.58"N	80°48'18.66"E
10	6°56'11.19"N	80°48'27.65"E	25	6°55'53.85"N	80°48'28.25"E
11	6°56'13.93"N	80°48'23.92"E	26	6°55'53.87"N	80°48'32.40"E



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12	6°56'15.62"N	80°48'20.57"E	27	6°55'50.67"N	80°48'34.52"E
12		00 40 20.37 L			
13	6°56'20.37"N	80°48'15.05"E			
14	6°56'23.59"N	80°48'8.11"E			
15	6°56'19.74"N	80°48'2.05"E			

Andreast Constant

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		1	1			
			17	6°59'42.60"N	80°44'57.05"E	
1	6°59'25.80"N	80°44'58.62"E				
						Along
						Kandy- NE
			18	6°59'41.03"N	80°44'56.67"E	Main Road
2	6°59'28.73"N	80°45'1.24"E				
			19	6°59'40.61"N	80°44'54.47"E	
3	6°59'27.93"N	80°45'4.96"E				
			20	6°59'38.69"N	80°44'54.86"E	
4	6°59'28.41"N	80°45'6.51"E				
			21	6°59'38.59"N	80°44'53.17"E	
5	6°59'33.59"N	80°45'6.08"E				
			22	6°59'37.03"N	80°44'53.57"E	
6	6°59'34.44"N	80°45'7.36"E				
			23	6°59'33.91"N	80°44'54.71"E	
7	6°59'34.40"N	80°45'8.54"E				
			24	6°59'33.83"N	80°44'54.44"E	
8	6°59'35.58"N	80°45'8.63"E				
			25	6°59'33.15"N	80°44'54.72"E	
9	6°59'36.36"N	80°45'8.47"E				
10			26	6°59'35.76"N	80°45'0.49"E	
10	6°59'37.72"N	80°45'9.81"E	27			
11	6°59'39.18"N	80°45'9.46"E	27	6°59'36.96"N	80°45'4.24"E	
11	N 81.65 65 0	80 45 9.40 E	28	6°59'34.49"N	80°45'4.95"E	
12	6°59'41.55"N	80°45'8.44"E	28	6 59 34.49 N	80 45 4.95 E	
12	0 39 41.33 1	80 43 8.44 L	29	6°59'33.25"N	80°45'1.79"E	
13	6°59'42.91"N	80°45'7.05"E	25	0 39 33.25 1	80 43 1.79 L	
	5 55 12.51 IV					Along
						Kandy- NE
						-
14		00°45'4 00"5	30	6°59'30.99"N	80°44'56.50"E	Main Road
14	6°59'42.62"N	80°45'4.83"E	21			
15	6°59'44.44"N	80°45'1.22"E	31	6°59'28.05"N	80°44'57.06"E	
_						<u> </u>
16	6°59'42.75"N	80°44'58.69"E				

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Middle Density Mix Zone -01

						Ambewela
		0084746 2015	39	6°56'55.20"N	80°46'27.54"E	Main Road
1	6°55'24.96"N	80°47'16.20"E		6°56'57.42"N	80°46'25.60"E	Blackpool
			40			Junction
2	6°55'26.52"N	80°47'22.47"E	4.1		00%46/24 24/15	
3	6°55'30.55"N	80°47'21.11"E	41	6°56'59.82"N	80°46'21.31"E	
4	6°55'35.73"N	80°47'17.41"E	42	6°56'58.45"N	80°46'15.67"E	
- 4	0 33 33.73 14	80 47 17.41 L	43	6°56'55.09"N	80°46'14.54"E	
5	6°55'37.20"N	80°47'21.69"E				
6	6°55'39.25"N	80°47'23.08"E	44	6°56'56.13"N	80°46'10.87"E	
-		00°47'24 00"F	45	6°56'54.73"N	80°46'5.60"E	
7	6°55'45.78"N	80°47'21.98"E	46	6°56'45.58"N	80°46'5.51"E	
8	6°55'47.27"N	80°47'23.36"E	47			
9	6°55'51.47"N	80°47'22.94"E	47	6°56'42.83"N	80°46'6.68"E	
10	6°55'56.09"N		48	6°56'40.17"N	80°46'9.88"E	
10	N 60.05 CC 0	80°47'12.75"E	49	6°56'37.92"N	80°46'8.83"E	
11	6°55'59.38"N	80°47'4.95"E				
12	6°55'56.56"N	80°47'0.13"E	50	6°56'35.61"N	80°46'6.41"E	
42			51	6°56'33.55"N	80°46'3.96"E	
13	6°55'53.94"N	80°46'58.34"E	52	6°56'30.31"N	80°46'6.89"E	
14	6°55'55.99"N	80°46'46.33"E				
15	6°56'1.22"N	80°46'35.64"E	53	6°56'31.15"N	80°46'11.49"E	
			54	6°56'28.99"N	80°46'16.45"E	
16	6°56'3.95"N	80°46'37.19"E	55	6°56'25.57"N	80°46'14.84"E	
17	6°56'6.40"N	80°46'37.19"E				
18	6°56'8.52"N	80°46'35.36"E	56	6°56'22.74"N	80°46'15.39"E	
			57	6°56'22.20"N	80°46'19.59"E	
19	6°56'9.68"N	80°46'32.29"E	58	6°56'21.26"N	80°46'21.76"E	
20	6°56'18.86"N	80°46'32.24"E	50	0.00.21.20 1	50 40 21.70 E	
21	6°56'22.37"N	80°46'34.12"E	59	6°56'19.29"N	80°46'22.72"E	
	0 J0 22.37 N	00 70 J4.12 L	60	6°56'18.98"N	80°46'26.72"E	
22	6°56'28.89"N	80°46'37.50"E				

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22			61	6°56'14.77"N	80°46'27.99"E
23	6°56'28.31"N	80°46'39.70"E	62	6°56'10.59"N	80°46'23.81"E
24	6°56'29.53"N	80°46'42.05"E	02	0 50 10.55 10	00 40 23.01 L
			63	6°56'3.81"N	80°46'27.89"E
25	6°56'28.07"N	80°46'47.40"E			
26	6°56'28.74"N	80°46'48.46"E	64	6°55'58.14"N	80°46'30.97"E
			65	6°55'49.53"N	80°46'35.43"E
27	6°56'31.50"N	80°46'47.82"E			
28	6°56'38.41"N	80°46'47.46"E	66	6°55'46.89"N	80°46'39.67"E
			67	6°55'42.23"N	80°46'47.31"E
29	6°56'39.04"N	80°46'45.09"E			
30	6°56'41.11"N	80°46'44.90"E	68	6°55'45.34"N	80°46'50.36"E
			69	6°55'47.69"N	80°46'53.39"E
31	6°56'43.33"N	80°46'42.03"E			
32	6°56'46.09"N	80°46'35.77"E	70	6°55'44.61"N	80°46'58.72"E
			71	6°55'40.47"N	80°47'2.03"E
33	6°56'45.38"N	80°46'35.74"E			
34	6°56'44.90"N	80°46'33.69"E	72	6°55'37.88"N	80°47'1.46"E
			73	6°55'35.91"N	80°47'2.30"E
35	6°56'48.80"N	80°46'33.00"E			
36	6°56'50.77"N	80°46'31.57"E	74	6°55'33.44"N	80°47'2.81"E
			75	6°55'30.00"N	80°47'8.40"E
37	6°56'50.32"N	80°46'28.54"E			
38	6°56'51.77"N	80°46'27.55"E	76	6°55'27.68"N	80°47'12.00"E

Middle Density Mix Zone- 0 2

1	6°59'28.05"N	80°44'57.06"E	
2	6°59'30.99"N	80°44'56.50"E	
3	6°59'33.83"N	80°44'54.44"E	NE- Kandy Main Road

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4	6°59'31.16"N	80°44'49.59"E	
5	6°59'27.90"N	80°44'44.47"E	
6	6°59'24.76"N	80°44'45.40"E	
7	6°59'22.64"N	80°44'48.16"E	
8	6°59'22.75"N	80°44'49.03"E	
9	6°59'24.17"N	80°44'51.83"E	
10	6°59'25.52"N	80°44'54.42"E	

Middle Density Mix Zone- 03

			17	6°57'30.51"N	80°47'9.45"E
1	6°57'10.23"N	80°47'13.90"E			
			18	6°57'30.87"N	80°47'8.61"E
2	6°57'15.27"N	80°47'18.28"E			
			19	6°57'31.78"N	80°47'7.37"E
3	6°57'14.52"N	80°47'19.48"E	2.0		
4	6°57'16.71"N	80°47'20.40"E	20	6°57'31.27"N	80°47'6.65"E
4	0 37 10.71 N	80 47 20.40 L	21	6°57'31.21"N	80°47'5.94"E
5	6°57'18.10"N	80°47'18.63"E	21	0 57 51.21 1	80 47 3.34 L
			22	6°57'29.45"N	80°47'5.34"E
6	6°57'19.45"N	80°47'18.69"E			
			23	6°57'28.39"N	80°47'3.41"E
7	6°57'20.26"N	80°47'17.11"E			
			24	6°57'26.11"N	80°47'0.84"E
8	6°57'19.36"N	80°47'12.08"E			
9	6°57'20.96"N	80°47'8.75"E	25	6°57'26.31"N	80°46'58.58"E
9	0 37 20.90 N	00 47 0.73 E	26	6°57'22.95"N	80°47'3.10"E
10	6°57'22.74"N	80°47'7.50"E	20	0 57 22.55 N	30 47 3.10 L
			27	6°57'21.45"N	80°47'3.71"E
11	6°57'25.88"N	80°47'9.76"E			
			28	6°57'18.20"N	80°47'7.18"E
12	6°57'25.89"N	80°47'11.05"E			
			29	6°57'17.16"N	80°47'9.53"E
13	6°57'26.67"N	80°47'12.30"E			
14			30	6°57'16.89"N	80°47'14.57"E
14	6°57'29.14"N	80°47'13.28"E	21		00%47/42 57/15
15	6°57'30.13"N	80°47'11.09"E	31	6°57'15.71"N	80°47'12.57"E
13	0 J/ J0.13 N	00 47 II.03 L	I		

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			32	6°57'12.21"N	80°47'13.09"E
16	6°57'30.72"N	80°47'10.46"E			

Middle Density Mix Zone- 04

			49	6°57'6.28"N	80°47'29.62"E
1	6°56'23.47"N	80°47'56.04"E			
2	6°56'27.73"N	80°47'56.59"E	50	6°57'7.80"N	80°47'32.36"E
3	6°56'30.47"N	80°47'56.58"E	51	6°57'9.85"N	80°47'36.45"E
4	6°56'33.07"N	80°47'57.24"E	52	6°57'10.56"N	80°47'36.10"E
5	6°56'34.21"N	80°47'57.95"E	53	6°57'9.89"N	80°47'33.75"E
6	6°56'34.61"N	80°47'59.42"E	54	6°57'8.71"N	80°47'29.79"E
7	6°56'36.29"N	80°48'1.41"E	55	6°57'8.18"N	80°47'27.58"E
8	6°56'36.93"N	80°48'3.14"E	56	6°57'7.27"N	80°47'26.50"E
9	6°56'37.84"N	80°48'2.99"E	57	6°57'8.25"N	80°47'22.71"E
10	6°56'38.45"N	80°48'2.01"E	58	6°57'8.72"N	80°47'22.49"E
11	6°56'39.60"N	80°48'1.10"E	59	6°57'10.66"N	80°47'23.17"E
12	6°56'40.75"N	80°47'59.85"E	60	6°57'12.90"N	80°47'23.98"E
13	6°56'41.69"N	80°47'57.76"E	61	6°57'13.28"N	80°47'21.40"E
14	6°56'42.52"N	80°47'55.95"E	62	6°57'13.72"N	80°47'20.07"E
15	6°56'43.27"N	80°47'54.47"E	63	6°57'14.55"N	80°47'19.48"E
16	6°56'44.09"N	80°47'53.08"E	64	6°57'15.74"N	80°47'17.26"E
17	6°56'45.17"N	80°47'52.12"E	65	6°57'16.77"N	80°47'14.45"E
18	6°56'45.94"N	80°47'51.05"E	66	6°57'16.22"N	80°47'13.83"E
19	6°56'46.65"N	80°47'49.75"E	67	6°57'15.73"N	80°47'12.45"E
20	6°56'48.40"N	80°47'48.15"E	68	6°57'14.84"N	80°47'12.21"E

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			1		
21	6°56'49.51"N	80°47'46.28"E	69	6°57'12.42"N	80°47'12.93"E
22	6°56'50.06"N	80°47'44.65"E	70	6°57'9.67"N	80°47'13.95"E
23	6°56'50.98"N	80°47'43.49"E	71	6°57'7.66"N	80°47'13.56"E
24	6°56'52.10"N	80°47'42.68"E	72	6°57'9.98"N	80°47'9.85"E
			73	6°57'11.31"N	80°47'5.28"E
25	6°56'53.80"N	80°47'42.64"E	74	6°57'12.15"N	80°46'59.86"E
26	6°56'53.80"N	80°47'42.16"E	75	6°57'13.76"N	80°46'58.47"E
27	6°56'52.85"N	80°47'40.50"E	76	6°57'12.03"N	80°46'52.94"E
28	6°56'50.86"N	80°47'38.05"E			
29	6°56'48.93"N	80°47'35.03"E	77	6°57'9.42"N	80°46'52.16"E
30	6°56'46.34"N	80°47'31.43"E	78	6°57'7.79"N	80°46'50.04"E
31	6°56'47.18"N	80°47'30.83"E	79	6°57'4.94"N	80°46'51.50"E
32	6°56'46.95"N	80°47'29.34"E	80	6°57'2.79"N	80°46'53.07"E
33	6°56'47.35"N	80°47'28.56"E	81	6°57'1.63"N	80°46'56.56"E
34	6°56'48.92"N	80°47'30.28"E	82	6°57'1.29"N	80°47'2.81"E
35	6°56'50.05"N	80°47'31.54"E	83	6°57'0.03"N	80°47'11.19"E
			84	6°56'56.28"N	80°47'16.09"E
36	6°56'51.57"N	80°47'33.24"E	85	6°56'52.97"N	80°47'16.77"E
37	6°56'53.75"N	80°47'32.03"E	86	6°56'48.99"N	80°47'16.66"E
38	6°56'54.91"N	80°47'33.46"E		0.50 +0.55 N	00 47 10.00 L
39	6°56'55.84"N	80°47'34.65"E	87	6°56'44.94"N	80°47'14.23"E
40	6°56'56.82"N	80°47'35.87"E	88	6°56'45.13"N	80°47'22.43"E
41	6°56'58.34"N	80°47'34.84"E	89	6°56'38.79"N	80°47'32.21"E
42	6°57'0.38"N	80°47'33.97"E	90	6°56'40.89"N	80°47'34.14"E
43	6°56'59.31"N	80°47'32.01"E	91	6°56'40.19"N	80°47'41.28"E
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		90°47'20 10"F	92	6°56'35.96"N	80°47'39.53"E
44	6°56'58.00"N	80°47'29.10"E			
			93	6°56'33.36"N	80°47'41.81"E
45	6°56'59.14"N	80°47'27.59"E			
			94	6°56'29.51"N	80°47'47.83"E
46	6°57'0.35"N	80°47'26.31"E			
			95	6°56'23.89"N	80°47'52.94"E
47	6°57'1.78"N	80°47'24.77"E			
48	6°57'5.03"N	80°47'27.35"E			

Middle Density Mix Zone -05

1	6°56'55.33"N	80°46'38.18"E		22	6°57'35.19"N	80°46'9.35"E
2	6°56'56.81"N	80°46'40.37"E		23	6°57'30.40"N	80°46'9.53"E
3	6°56'57.93"N	80°46'41.54"E		24	6°57'29.60"N	80°46'11.55"E
4	6°56'59.09"N	80°46'44.06"E		25	6°57'25.85"N	80°46'11.98"E
5	6°57'1.99"N	80°46'42.42"E		26	6°57'24.91"N	80°46'8.87"E
6	6°57'2.70"N	80°46'38.89"E		27	6°57'22.98"N	80°46'7.41"E
7	6°57'4.02"N	80°46'38.01"E		28	6°57'20.55"N	80°46'7.49"E
8	6°57'5.60"N	80°46'38.97"E		29	6°57'20.07"N	80°46'11.18"E
9	6°57'6.37"N	80°46'41.60"E		30	6°57'18.79"N	80°46'11.57"E
10	6°57'12.43"N	80°46'44.11"E		31	6°57'18.58"N	80°46'15.00"E
11	6°57'13.68"N	80°46'46.71"E	Along Badulla	32	6°57'17.34"N	80°46'16.28"E
12	6°57'18.10"N	80°46'45.33"E	- Perade niya	33	6°57'20.82"N	80°46'17.22"E
13	6°57'22.83"N	80°46'40.82"E	Man Road	34	6°57'23.72"N	80°46'20.50"E

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14	6°57'22.80"N	80°46'37.93"E	35	6°57'22.46"N	80°46'21.46"E
15	6°57'26.88"N	80°46'31.89"E	36	6°57'20.99"N	80°46'24.11"E
16	6°57'28.20"N	80°46'26.53"E	37	6°57'16.30"N	80°46'27.21"E
17	6°57'35.22"N	80°46'16.78"E	38	6°57'12.00"N	80°46'28.79"E
18	6°57'39.59"N	80°46'3.19"E	39	6°57'6.91"N	80°46'24.79"E
19	6°57'35.26"N	80°45'57.24"E	40	6°57'2.80"N	80°46'28.38"E
20	6°57'33.72"N	80°46'1.30"E	41	6°56'58.11"N	80°46'32.93"E
21	6°57'31.30"N	80°46'7.24"E			

Middle Density Mix Zone -06

1	6°58'27.15"N	80°46'36.03"E	45	6°58'54.32"N	80°45'10.84"E	
2	6°58'28.87"N	80°46'37.18"E	46	6°58'48.93"N	80°45'16.40"E	

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3	6°58'30.08"N	80°46'39.47"E		47	6°58'49.60"N	80°45'17.58"E	
4	6°58'32.19"N	80°46'42.22"E		48	6°58'48.15"N	80°45'19.69"E	
5	6°58'33.00"N	80°46'39.25"E		49	6°58'48.07"N	80°45'20.17"E	
6	6°58'32.96"N	80°46'33.38"E		50	6°58'48.05"N	80°45'21.13"E	
7	6°58'33.49"N	80°46'31.84"E		51	6°58'46.56"N	80°45'25.22"E	
8	6°58'33.28"N	80°46'29.60"E		52	6°58'45.14"N	80°45'25.48"E	
9	6°58'33.84"N	80°46'27.57"E		53	6°58'42.76"N	80°45'22.50"E	
10	6°58'32.56"N	80°46'25.86"E		54	6°58'40.00"N	80°45'24.41"E	
11	6°58'37.49"N	80°46'19.26"E	Along Gamunu Mawatha	55	6°58'40.72"N	80°45'30.67"E	
12	6°58'40.08"N	80°46'17.61"E		56	6°58'37.45"N	80°45'38.54"E	
13	6°58'42.06"N	80°46'12.08"E		57	6°58'40.03"N	80°45'40.03"E	
14	6°58'42.61"N	80°46'7.11"E		58	6°58'42.53"N	80°45'32.58"E	
15	6°58'45.63"N	80°46'2.73"E	Keena	59	6°58'46.27"N	80°45'34.15"E	
16	6°58'47.97"N	80°45'57.62"E	Road	60	6°58'46.95"N	80°45'32.92"E	
10	6°58'54.69"N	80°45'52.35"E	Along Waterfield Drive	61	6°58'46.38"N	80°45'31.99"E	

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18	6°58'54.94"N	80°45'44.64"E		62	6°58'48.30"N	80°45'30.46"E	
19	6°58'55.39"N	80°45'36.13"E		63	6°58'51.39"N	80°45'25.23"E	
20	6°58'59.94"N	80°45'31.25"E	St. Andrews Rd	64	6°58'53.64"N	80°45'27.00"E	
21	6°59'2.26"N	80°45'27.07"E		65	6°58'55.92"N	80°45'28.60"E	
22	6°58'59.16"N	80°45'24.30"E		66	6°58'52.95"N	80°45'32.39"E	
23	6°58'55.46"N	80°45'21.85"E		67	6°58'47.46"N	80°45'38.06"E	
24	6°58'53.92"N	80°45'22.18"E		68	6°58'48.56"N	80°45'39.30"E	
25	6°58'54.47"N	80°45'21.23"E		69	6°58'47.56"N	80°45'41.40"E	
26	6°58'56.29"N	80°45'20.40"E		70	6°58'48.24"N	80°45'42.29"E	
27	6°58'57.46"N	80°45'18.07"E		71	6°58'45.14"N	80°45'44.82"E	
28	6°59'3.70"N	80°45'15.45"E		72	6°58'45.48"N	80°45'47.77"E	
29	6°59'5.07"N	80°45'14.23"E		73	6°58'44.11"N	80°45'51.26"E	
30	6°59'9.88"N	80°45'11.69"E		74	6°58'42.52"N	80°45'57.21"E	
31	6°59'10.08"N	80°45'10.37"E		75	6°58'41.32"N	80°45'57.77"E	
32	6°59'9.73"N	80°45'7.65"E		76	6°58'40.12"N	80°46'1.35"E	

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33	6°59'8.39"N	80°45'7.66"E	77	6°58'39.15"N	80°46'6.07"E	
34	6°59'7.65"N	80°45'11.04"E	78	6°58'38.56"N	80°46'6.30"E	Rahula Mawatha
35	6°59'5.35"N	80°45'12.37"E	79	6°58'39.23"N	80°46'8.04"E	
36	6°59'4.00"N	80°45'10.71"E	80	6°58'36.11"N	80°46'11.68"E	
37	6°59'3.43"N	80°45'10.64"E	81	6°58'36.35"N	80°46'12.60"E	
38	6°59'3.07"N	80°45'10.26"E	82	6°58'32.74"N	80°46'15.91"E	
39	6°59'0.96"N	80°45'10.81"E	83	6°58'29.02"N	80°46'19.38"E	
40	6°59'0.24"N	80°45'11.57"E	84	6°58'26.35"N	80°46'22.24"E	Lady maclum Mawatha
41	6°58'59.28"N	80°45'12.92"E	85	6°58'26.67"N	80°46'25.70"E	
42	6°58'58.07"N	80°45'12.93"E	86	6°58'29.74"N	80°46'29.83"E	
43	6°58'57.10"N	80°45'10.96"E	87	6°58'27.81"N	80°46'30.73"E	
44	6°58'55.74"N	80°45'12.84"E	88	6°58'27.36"N	80°46'33.79"E	

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