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Department of National Botanic Gardens, P.O.Box.14, Peradeniya

වාර්ෂික කාර්යසාධන වාර්තාව - 2018

வருடாந்த முன்னேற்ற அறிக்கை - 2018

Annual Performance Report -2018

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சுற்றுலா அபிவிருத்தி, வனசீவராசிகள் மற்றும் கிறித்தவ சமய அலுவல்கள் அமைச்சு
Ministry of Tourism Development, Wildlife and Christian Religious Affairs



Department of National Botanic Gardens

Annual Performance Report 2018

**Department of National Botanic Gardens
P.O. Box 14, Peradeniya**

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Annual Performance Report

2018

1.Introduction

The Department of National Botanic Gardens is the pioneer institution for botanical activities in Sri Lanka. Its contribution to ex-situ conservation of plants, education and implementation of research and technological programmes to develop floriculture in Sri Lanka is immense and varied.

Main Botanic Gardens including the Royal Botanic Gardens Peradeniya (1821), Hakgala Botanic Gardens (1861) and Henarathgoda Botanic Gardens, Gampaha (1876) were established by the British while the Medicinal Plant Gardens, Ganewatta was established in the 1950s; both Mriijawela Dry Zone Botanic Gardens, Hambantota and Seethawaka Wet Zone Botanic Gardens, Avissawella were opened to the public in 2013 and 2015 respectively as new Botanic Gardens designed by local experts.

More than 4500 plant species have been conserved at these Botanic Gardens under the Department of National Botanic Gardens including rare plants, endangered plants from forests and endemic plants species found only in Sri Lanka. Besides these Botanic Gardens, the Medicinal Plant Garden, Ganewatta also contributes to conserve medicinal plants in Sri Lanka.

The National Herbarium of the Department of National Botanic Gardens carry out plant authentication work and research programmes in plant taxonomy and other aspects of botanical sciences. The Floriculture Development and Research Unit focuses on floriculture research as well as supporting and encouraging viable ventures for floriculture promotion in the country via floriculture development activities. The Education and Training Center offers training and educational programmes including short term courses as well as one and two year duration diploma courses. Botanic Gardens of Sri Lanka also provide an opportunity for leisure where plants from around the world depict the diversity and beauty of the plant kingdom moreover they share knowledge and expertise in conservation, biodiversity and floriculture.

1.1 .Vision

To become a scientifically and aesthetically fine Botanic Gardens in the Tropics.

1.2. Mission

Provide opportunities for public to study, admire and sustainably conserve plant resources in natural and manmade environment.

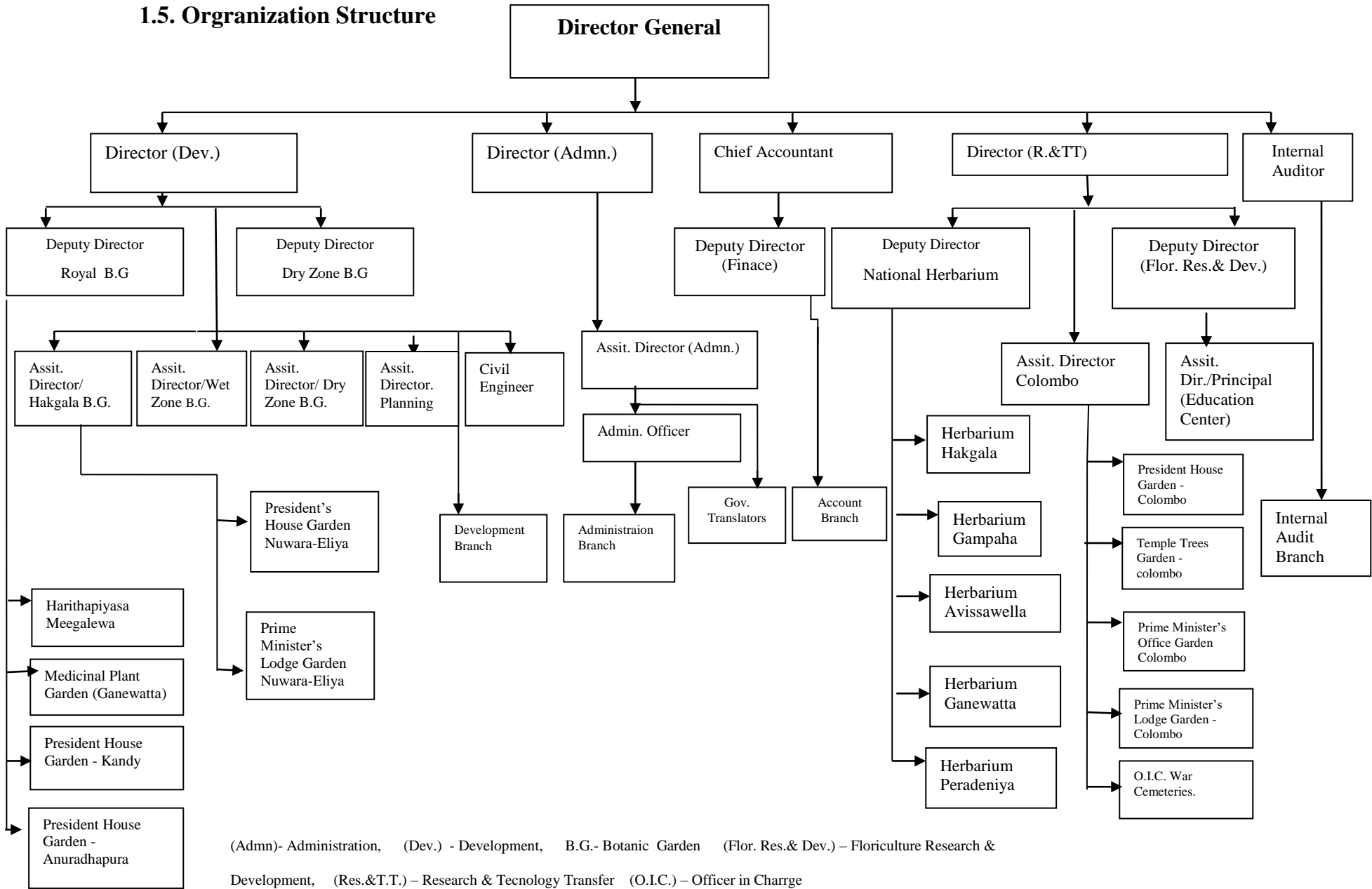
1.3. Main Functions

1. Planning and implementation of ex-situ conservation strategies for the conservation of Sri Lankan plant diversity.
2. Carry out activities to disseminate authentic information and technical expertise on plants and plant related industries of Sri Lanka using educational and communication strategies.
3. Conduct diverse research and implement technologies to develop floriculture industry in Sri Lanka.
4. Management and development of National Botanic Gardens at high standards.
5. Prepare development plans for the establishment of new botanic gardens in appropriate places.
6. Plan and implement research and technical programmes needed to popularize Amenity Horticulture in Sri Lanka.
7. Provide technical advice to conserve Sri Lankan plants of historic importance and maintain the health of the sacred Bo-tree (Sri Maha Bhodhi) at Anuradhapura.

1.4. Staff Details

Category	Approved Cadre	Actual Cadre
Senior Level	34	13
Tertiary Level	10	04
Secondary Level	189	126
Primary Level	791	605
Total	1024	748

1.5. Orgranization Structure



(Admn)- Administration, (Dev.) - Development, B.G.- Botanic Garden (Flor. Res.& Dev.) – Floriculture Research & Development, (Res.&T.T.) – Research & Tecnology Transfer (O.I.C.) – Officer in Charge
 (Assit) – Assistant, (Dir) - Director

1.6. Institutes and units under the Department

Royal Botanic Gardens, Peradeniya

Being established in 1821 the Royal Botanic Gardens, Peradeniya plays a key role in conservation of plants and in education of people on plants while contributing to the economic and environmental development in Sri Lanka.

The 61.25 hectares garden situated near Kandy is popular for botanical research, horticulture as well as exhibits various valuable plants of historical value, endangered and threatened plants. It also provides recreational facilities for the general.

National Herbarium

The National Herbarium is where dried herbarium specimens of the flora of Sri Lanka and many other specimens of exotic and cultivated plant species are preserved for systematic studies. Nearly 160,000 herbarium specimens are conserved at appropriate conditions for reference purposes. About 3,500 books, periodicals and historical collections of botanical illustrations related to the local flora are also found in this herbarium.

The collection of plant specimens at the Herbarium serves a variety of purposes such as taxonomic and biodiversity research as well as plant authentication.

Hakgala Botanic Gardens

The Botanic Garden at Hakgala, was established in 1861 and the flora of the gardens is distinctly sub-tropical. It consists of representatives of the indigenous, montane flora mixed together with those introduced from other countries, systematically planted in various sections of the gardens.

Henarathgoda Botanic Gardens, Gampaha

Henarathgoda Botanic Gardens, Gampaha was established in 1876 for introduction of rubber to Sri Lanka and possess an array of botanical and horticultural attractions with a rich history. It is situated in Gampaha with a total extent of 17.4 hectares. This garden consists of important plant collections of about 2000 plant species of Sri Lanka and other countries.

Floriculture Research and Development Unit, Peradeniya

The Floriculture Research and Development Unit is mandated to conduct research programmes related to floriculture and also contributes to the development of this sector in Sri Lanka.

The unit actively engages in providing training programmes, on-site advisory services, and information on investment opportunities in the sector and provides assistance in the form of material for infrastructure development and marketing as well as quality plants to uplift this sector.

Ganewatta Medicinal Plant Gardens

The Medicinal Plant Gardens, Ganewatta is situated in the North Western Province in the Kurunegala District. This 21.04 hectares garden is home to a wide range of medicinal plants. Ganewatta Medicinal Plant Gardens engages in cultivation and trade of medicinal plants while conserving rare species and demonstrating systematic plantation of medicinal plants.

Mirijjawila Dry Zone Botanic Gardens

The Mirijjawila Dry Zone Botanic Gardens is the first botanic gardens in Sri Lanka designed by local experts after 130 years. The garden is 121.4 hectares in extent. It is located in the Hambanthota District of the Southern Province and was opened to public in November 2013.

The main purposes of the gardens are to conserve dry and arid zone plants ex-situ, conduct studies on plants and promote economic development in the area.

Sithawaka Wet Zone Botanic Gardens

This Botanic Garden is situated near Avissawella and its development was initiated in 2008. It is 42.49 hectares in extent and was opened to the public in 2015.

The main purpose of this garden is ex-situ, conservation of wet lowland plants. This garden plays a key role as an attractive place through economic, aesthetic and horticulture value.

Suwahas Mal Sevana, Narahenpita

This is a key unit of the department in Narahenpita which is involved in marketing and promotion of floriculture products of growers and facilitates marketing products of member of “Suwahas Mal” Organizations islandwide.

Presidential Gardens of His Excellency the President and the Hon. Prime Minister

The Department maintains the residential gardens of His Excellency the President in Colombo, Kandy, Nuwara-Eliya, Anuradhapura and residential gardens of the Hon. Prime Minister in Colombo and Niwara-Eliya

Commonwealth War Graves

Commonwealth War cemeteries located in Kandy, Jawatte, Borella and Trincomalee for commemoration of military services of members of commonwealth countries who died in the First and Second World Wars are managed by the Department.

Haritha Piyasa, Meegallawa

Megaleewa Haritha Piyasa is situated in the North – Western province its current extent is 2.43 hectares. It is under development and will operate as a training center to provide training for internal staff as well as for local communities on floriculture and will also operate as a plant propagation center.

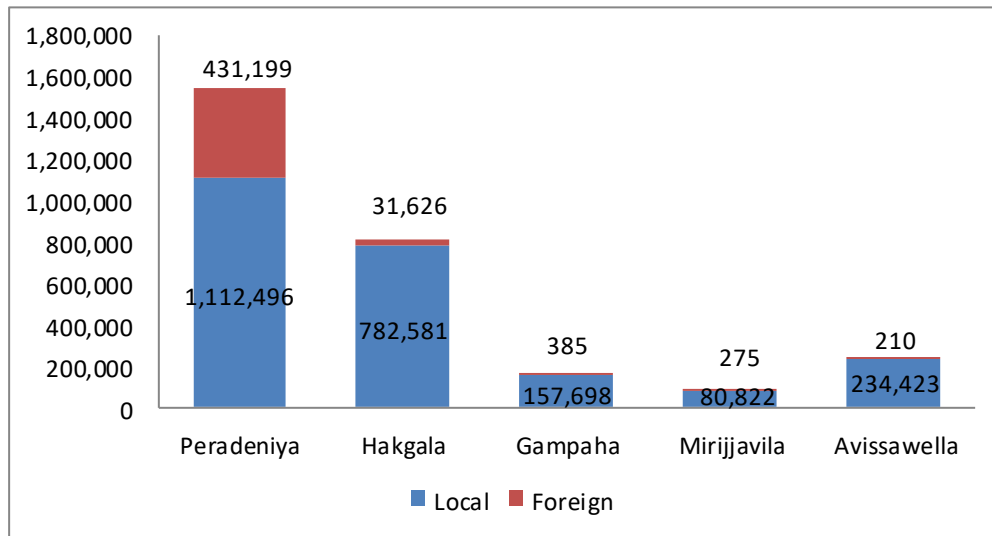
2. Progress in 2018

2.1. Visitations

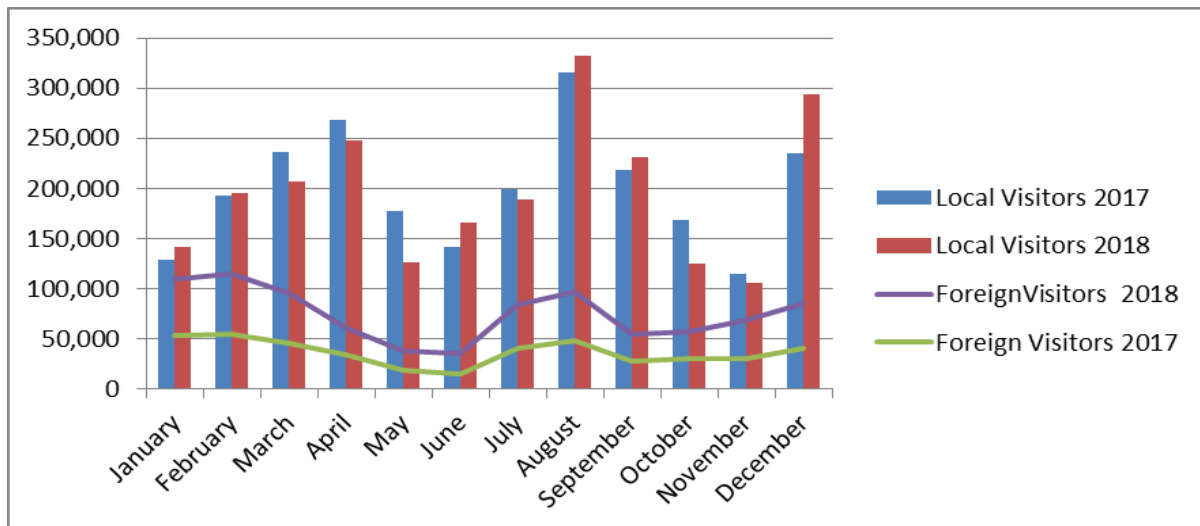
All units attached to the Department of National Botanic Gardens were maintained at high standards during 2018.

The total amount of visitors to the Botanic Gardens was 2,828,344 during this year. Among these visitors 2,364,649 were local and 463,695 were foreigners.

2.2.2018 Visitor arrivals to the gardens during year 2018



Local and foreign visitors at Botanic Gardens



Comparison of visitor arrivals at Gardens in 2017 and 2018

2.2. Visitations to the Botanic Gardens from 2014 to 2018

Description	Year				
	2014	2015	2016	2017	2018
Local visitors	1,893,522	2,215,702	2,593,252	2,397,347	2,364,649
Foreign visitors	345,468	407,553	465,405	440,207	463,695
Total	2,238,990	2,623,255	3,058,657	2,837,554	2,828,344

3. Revenue

The total revenue earned from admission fees, plant sales etc., was Rs. 861.9 Mn (revenue earned from visitors to the gardens was 784.77 Mn while plant sales and other sources yielded Rs. 77.13 Mn). Revenue of the Botanic Gardens showed an 5% increase compared to the last year.

3.1. Total Revenue from visitors to all Botanic Gardens from year 2014 to 2018

Description	Year				
	2014	2015	2016	2017	2018
Revenue from local visitors (Rs. Mn.)	75.9	88.5	115.4	113	111.34
Revenue from foreign visitors (Rs. Mn.)	369.8	435.1	594.3	640	673.43
Total (Rs. Mn.)	445.7	523.6	709.7	753	784.77

4. Financial Progress

Development activities were carried out as planned in all Botanic Gardens and allied units, achieving a financial progress of 97% in 31st of December 2018.

4.1. Provision, Expenditure and Progress

Total of the Capital and the Recurrent	Provisions (Rs. Mn.)	Actual Expenditure (Rs. Mn.)	Bils (Rs.Mn.)	Expenditure (Rs. Mn.)	Percentage (%)
Capital Expenditure	397.70	347.24	37.216	384.456	97
Recurrent Expenditure	412.51	402.746	1.981	404.727	98
Total	810.21	749.986	39.197	789.183	97

4.2.1. Expenditure of capital provisions of 2018 (Rs. Mn.)

	Capital Allocations for 2018 (Rs. Mn.)	Expenditure under capital allocations 2018 (Rs. Mn.)	Bils (Rs.Mn.)	Total Expenditure (Rs. Mn.)
Development of Royal Botanic Gardens, Peradeniya	8.295	7.984	0.308	8.292
Development of Gampaha Botanic Gardens	23.710	22.369	0.0	22.369
Development of Hakgala Botanic Gardens	4.595	2.072	2.079	4.151
Development of Gampaha Botanic Gardens Medicinal Plant Garden, Ganewatta	6.870	5.514	1.268	6.782
Development of Haritha Piyasa Training Center Meegallewa	7.50	6.90	0.588	7.488
Education and Training	0.50	0.451	0.0	0.451
Herbarium and Plant Taxonomic Research	1.570	0.246	1.320	1.566
National Floriculture Development, Programme	60.50	57.370	3.119	60.489
Seethawaka Wet Zone Botanic Gardens, Avissawella	29.090	28.266	0.459	28.725

	Capital Allocations for 2018 (Rs. Mn.)	Expenditure under capital allocations 2018 (Rs. Mn.)	Bils (Rs.Mn.)	Total Expenditure (Rs. Mn.)
Mirijjawila Dry Zone Botanic Gardens, Hambanthota	65.370	63.630	1.679	65.309
Activities at the Head Office	4.70	4.20	0.253	4.453
To develop infrastructure facilities of development of floriculture by the Budget Proposal	10.0	0.0	0.0	0.0
Total	222.70	199.002	11.073	210.075

4.2.2 . Allocations and Expenditure of the Botanic Gardens Trust Fund

	Allocations for 2018 under Botanic Gardens Trust Fund (Rs. Mn.)	Expenditure under Botanic Gardens Trust Fund 2018 (Rs. Mn.)	Bils (Rs.Mn.)	Total Expenditure (Rs. Mn.)
Development of Royal Botanic Gardens, Peradeniya	66.225	43.482	22.742	66.224
Development of Gampaha Botanic Gardens	8.115	7.563	0.534	8.097
Development of Hakgala Botanic Gardens	45.890	44.819	1.066	45.885
Development of Medicinal Plant Garden, Ganewatta	0.000	0.000	0.00	0.000
Development of Haritha Piyasa Training Center Meegallewa	0.000	0.000	0.00	0.000
Education and Training	1.125	1.123	0.00	1.123
Herbarium and Plant Taxonomic Research	16.000	14.066	1.801	15.867
National Floriculture Development, Programme	0.000	0.000	0.0	0.000
Seethawaka Wet Zone Botanic Gardens, Avissawella	4.150	4.143	0.0	4.143

	Allocations for 2018 under Botanic Gardens Trust Fund (Rs. Mn.)	Expenditure under Botanic Gardens Trust Fund 2018 (Rs. Mn.)	Bills (Rs.Mn.)	Total Expenditure (Rs. Mn.)
Mirijjawila Dry Zone Botanic Gardens, Hambanthota	1.250	1.238	0.0	1.238
Activities at the Head Office	32.245	31.411	0.0	31.411
Total	175.0	147.845	26.143	173.988

4.2.3. Total Expenditure of the consolidated and Botanic Gardens Trust Fund

	Total Allocations for 2018 (Rs. Mn.)	Actual Expenditure (Rs. Mn.)	Total Expenditure	Actual Expenditure as a percentage	Total Expenditure as a percentage
Development of Royal Botanic Gardens, Peradeniya	74.520	51.466	74.516	69	100
Development of Gampaha Botanic Gardens	31.825	29.932	30.466	94	96
Development of Hakgala Botanic Gardens	50.485	46.891	50.036	93	99
Development of Medicinal Plant Garden, Ganewatta	6.870	5.514	6.782	80	99
Development of Haritha Piyasa Training Center Meegallewa	7.500	6.900	7.488	92	100
Education and Training	1.625	1.574	1.574	97	97
Herbarium and Plant Taxonomic Research	17.570	14.312	17.433	81	99
National floriculture Development, Programme	60.500	57.370	60.489	95	100
Seethawaka Wet Zone Botanic Gardens, Avissawella	33.240	32.409	32.868	97.	99

	Total Allocations for 2018 (Rs. Mn.)	Actual Expenditure (Rs. Mn.)	Total Expenditure	Actual Expenditure as a percentage	Total Expenditure as a percentage
Mirijjawila Dry Zone Botanic Gardens, Hambanthota	66.260	64.868	66.547	97	100
Activities at the Head Office	36.945	35.611	35.864	98	99
To develop infrastructure facilities of development of floriculture by the Budget Proposal	10.000	0.000	0.000	0	0
Total	397.700	346.847	384.063	87	97

5. Progress of Development and other activities at Botanic Gardens in 2018

The beauty of gardens and their status have been maintained at a high level through landscaping activities in all gardens with efficient maintenance of newly developed areas, footpaths, avenues, as well as various sections of the garden.

5.1 Royal Botanic Gardens, Peradeniya

Approved Budget: - Rs.8.295 Mn from capital allocations and Rs. 66.225 Mn. From Trust Fund

Expenditure 2018:- Rs.74.516 Mn.

- Construction of interior features and planting activities were successfully carried out at the plant conservatory, an irrigation system was also installed and was opened to the public.



Internal creativities in plant conservation

- Internal road network and drainage systems were upgraded and renovations of buildings were also carried out to enhance the appearance of the gardens.



Renovated roof of the Garden cafeteria

- Main roads of the gardens were also improved by installing curbs to upgrade standards.

- A mechanism for Solid Waste Management in the garden is being established and necessary materials including bins were purchased and structures were established for implementing the mechanism.

- A new lavatory system was constructed for workers while the office toilets were also renovated.

- Renovation of two new officer quarters was completed.

- Plant conservation activities were also carried out by enhancing the living collection and adding new plant species to plant collections. 209,859 plants were also produced. In addition, a new seed nursery was established and outdoor plant nursery was also renovated.

- The water supply system of the ferns collection was upgraded.

- Establishment of a security fence for the native plant nursery and construction of a potting shed were carried out.



Completed building to store the garden's machineries

- Construction of a Museum with an information center which is essential to the garden was initiated and is scheduled to be completed in 2019.

- Revising of names of plants was carried out and section “C” has been completed.
- Information material such as brochures, flyers and posters were prepared and displayed in required areas to disseminate information among visitors. Guided tours to provide information about the garden and its collections were implemented for visitors at the gardens and 05 programmes were conducted for 150 visitors.
- Two water tanks of 10,000L capacity were purchased to upgrade drinking water facilities for visitors.
- Establishment of a CCTV camera system for the security of the gardens.
- Battery bus and an auto driving leaf collecting machine were purchased to upgrade visitor transport facilities and to maintain the cleanliness of the garden.
- A building was constructed to store garden instruments and purchased material.
- The plant sales centre was upgraded.
- Garden benches were purchased to improve facilities for visitors.
- Renovation activities of the water supply system for the gardens from Ma Oya were carried out.
- Renovation of the roof of the cafeteria was completed and a pit was established for waste water management.
- Construction activities of the Pergola in collaboration with NERD were completed.
- Paving the main road with colourful stones is being carried out and is scheduled to be complete in 2019.

5.2. Henarathgoda Botanic Gardens, Gampaha

Approved Budget: - Rs.23.710 Mn from capital allocations and Rs. 8.115 Mn. From Trust Fund

Expenditure 2018:- 30.466 Mn

- Renovation activities of buildings, quarters, plant houses, wall around the garden, summer house, shade houses and boat yard were carried out to enhance outlook of the garden. Land improvement and other maintenance activities were also carried out to enhance quality and standards of the garden.



Interior scenery of the Orchid House

- Construction of a new garage which is essential for the garden has been completed.
- Renovation of the main quarters of the garden and part of the protective wall was carried out.
- Construction of a new summer house close to the Fruit Garden was completed.
- Second phase of the Construction of a two storied building was completed to upgrade facilities of workers at the



Various modles with potted flowering plants opened to the public

gardens. This is scheduled to be utilized to provide facilities for the maintenance services and storage of machines.

Plant conservation activities were carried out while adding new plant species to the living collection to enhance collections. Plant production activities were carried out and 81,838 plants were propagated. Plant labels were also fixed on tree to provide information on plants to visitors.

- Informational materials such as leaflets and display boards were prepared to provide information on plants to visitors.
- Construction of the new Orchid House was completed as an additional feature for visitors and was opened to the public.
- New plants were added to the native plant collection of the garden and the Butterfly Garden was upgraded by adding new plants that attract butterflies.
- Flower structures of different designs were established in the gardens for beautification.
- A protective fence was erected around the nursery.



Summer House constructed close to the Fruit Garden



Part of the rehabilitated protective wall



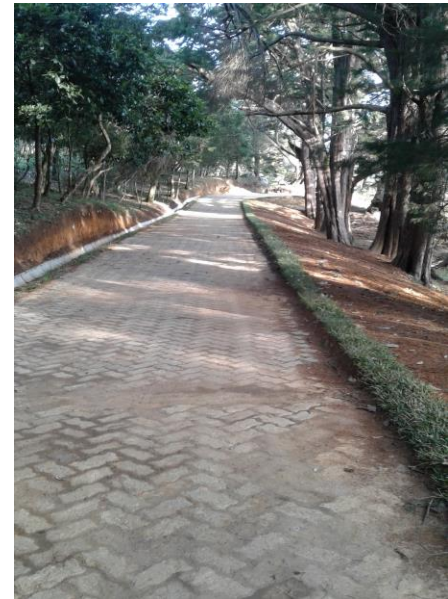
Renovated Tree House for children

- Solar power system was established to minimize the electricity consumption and expenditure of the laboratory.
- Renovation of the Tree House for children was carried out and action has been taken to establish a digital information board close to the main gate.

5.3 Hakgala Botanic Gardens

Approved Budget: - Rs. 4.595 Mn from Capital
 Allocations Botanic Gardens Trust Fund: - Rs. 45.890 Mn
 Expenditure 2018:- Rs. 50.036 Mn

- Renovation activities of buildings, quarters, plant houses, summer houses and the circuit bungalow were carried out to enhance the outlook and maintain quality of the garden.
- Construction of a new quarters complex for officers with 4 quarters was completed.
- A new Summer House was established close to the new entrance of the garden.
- The tender to construct a new plant sales center at the exit of the gardens has been awarded. Construction is scheduled to be complete in 2019. It will be in addition to the existing plant sales center within the gardens and will enable customers not visiting the gardens to purchase plant as well.
- Establishment of the half of the protective fence around the garden was completed.



Upgrading roads with stones

- Plant conservation activities were carried out to enhance the living collection plant production activities were also carried out and 137,690 plants were produced. Plants were labeled.
- Information materials were prepared and are being printed.
- A car park was planned to be established the new entrance complex in 2017. However, it was discontinued due to technical issues of the soil and tender was awarded to initiate construction during this year subsequent to solving these issues.
- Maintenance and land improvement activities were carried out to upgrade standards of gardens.
- Roads in the garden were upgraded with stones.
- First phase of the stores and workers recreational complex was completed



Part of the protective fence established around the garden.

5.4. Development of Ganewatta Medicinal Plant Gardens

Approved Budget: - Rs. 6.870 Mn from Capital Allocations
 Expenditure 2018:- Rs. 6.782 Mn

- Building and other structures were maintained while improving outlook of the gardens to upgrade its standards.
- Plant production programme was continued this year as well and 26,572 plants were



Printed leaflets convey the information of medicinal plants.

produced. Adding new plant collections and upgrading the living collection was also continued.

- Information leaflets and boards were prepared and printed to provide information on Medicinal Plants to visitors.
- Renovation of the ceiling of the Herbarium was completed.
- Awareness programmes on medicinal plants were conducted and 2,416 individuals obtained knowledge on use of medicinal plants their values and conservation aspects.
- Two water tanks for rain water harvesting was established to store water to be used during drought period.
- The drainage system close to the lecture hall was upgraded and land improvement activities were completed.



Established descriptive boards on medicinal plants in the garden

5.5 National Herbarium and Plant Systematics

Approved Budget: - Rs. 1.570 Mn from Capital Allocations from
Botanic Gardens Trust Fund: - Rs. 16.00 Mn

Expenditure 2018:- Rs. 17.433 Mn

- One and two day workshops on plant identification and field exploration were organized for officers of the Department of National Botanic Gardens to Upgrade their knowledge and capacity building.



Plant exploration activities under the plant exploration programme

- Botanists, Professor Nimal Gunathilaka and Professor Savithri Gunathilaka participated as resource persons.

- Knowledge was shared with officers of the department through lectures and practical training sessions on accurate plant identification and field exploration.

- Workshops were conducted for 653 school children, 655 university students and 436 officers of the state and private sector on herbarium techniques and management, plant systematics, plant identification, taxonomy and biodiversity.



Lecture conducted by Professor Savithri Gunathilaka at the workshop for plant identification and field exploration for officers of the Department of National Botanic Gardens

- Plants exploration activities of the wilpattu national park and Bambarabotuwa forest reserve in Ratnapura were carried out under the plants exploration programme. Medicinal plant collection for the Medicinal Plants Garden, Ganewatta, studies on the genus cryptocorine related to identification of different species and their flowering as well as fruiting periods and studies on hill top flora of Sri Lanka were carried out.

- 19 Botanical field explorations were carried and 802 flowering plant species 22 Ferns species and 28 Moss specimens were collected.

- Among the collected specimens 01 extinct plant, 06 critically endangered plants, 133 endangered plants, 212 vulnerable plants and 124 near threatened plants were identified. Plant conservation



Meeting being conducted related to preparing the National Red Data Book

activities were also carried out with relevant ex-situ conservation techniques and specimens were also kept at the national Herbarium for future reference.

- In addition to the Botanical Survey, a medicinal plant exploration programme was carried out in collaboration with the Royal Botanic Gardens, Peradeniya. Rare plant species were collected and conserved at the Ganewatta Medicinal Plant Gardens. This programme will enrich plants collections at the Ganewatta Medicinal Plant Gardens.



Educating school children

- A moss plant species conservation programme was carried out and plant species collected from field explorations were planted at the Royal Botanic Gardens.
- The National Herbarium also immensely contributed for preparation of the National Red Data Book during this year through plant species evaluation, collection, data and authentication of plants.
- In addition, services on authentication of botanical names and identification of plants for external sources and other institutions associated with plant and plant production, research and educational purposes was carried out by the National Herbarium. Identification of 981 plants for research and education activities 21 plant species for legal activities and 14 plant species for plant industries were carried out.
- Publishing activities of the world famous historical collection of Botanical illustration by Haramanis D. Alwis was carried out and book was released for sale to the public.
- 3 leaflets and a scientific poster was prepared on threatened plants in Sri Lanka, invasive plants, ferns and field exploration.
- Activities are being carried out to add accession numbers to illustrations and dry specimens at the Herbarium, to prepare a database of specimens kept at the National

Herbarium to facilitate verifying of specimens. In addition, photographing of plant specimens digitizing according to international standards and fixing of bar codes was carried out.

- Renovating the roof and wash rooms of the National Herbarium was carried out and maintenance activities of all specimens at the National Herbarium was ensured.

5.6. National Floriculture Development Programme.

Approved Allocations: - Rs. 60.5 Mn from Capital Allocations

Expenditure 2018:- Rs. 60.335 Mn

The Floriculture Development Programme was also implemented during this year as well to empower lower and middle level growers in the floriculture sector and to uplift their economic standards.

- 197 grower organizations were established island wide consisting of 8,500 members Under this programme. 20,684 Individuals were trained in the cultivation of Anthuriums, Orchids, Roses Gerbera, Cut greens and Tissue culture.
- Workshops were conducted to enhance technical skills of growers attending these training programmes.



An exhibition conducted for marketing of plants and related materials of the growers



Visiting nurseries and providing advisory service for field matters of growers

- 152 small scale exhibitions and 28 district level exhibitions were conducted to enhance the marketing capabilities of growers in the floriculture industry. 445 nurseries were visited to provide on-site advices and address their nursery related problems.



Conducting training sessions for growers

- Researches were carried out to upgrade the floriculture industry in the county relevant to the future needs as well as to solve current problems. In addition, free advisory services were provided to individuals and institutions related to commercial floriculture, nursery management and plant protection methods.

- Breeding new hybrids of Anthuriums and Orchids is being conducted at the nurseries and laboratories.

- Growing areas and plant nurseries in the floriculture section were upgraded and materials were purchased for development of floriculture sections at all botanic Gardens. Renovation activities were carried out to upgrade nurseries for Anthuriums at the Botanic Gardens, Peradeniya and Extend the Glass House for orchids at the Gampaha Botanic Gardens.



Distributing planting materials facilititating the growers

- Books related to floriculture were published.
- Mother plants were purchased to introduce new flower varieties with high quality to the growers.

- Activities were carried to purchase the planting materials, polythene, shade nets and canopy huts to conduct exhibitions; to improve infrastructure of growers and distribution of these items to growers was facilitated this year as well. These activities were implemented to promote the floriculture sector of this country.
- Floriculture and crop cultivation related information was provided to growers and the general public Colombo and its surrounding areas. Training was provided to individuals at the Narahenpita Assistant Director’s office. Floriculture and other plant related consultancies and trainings are also provided to interested groups at this center to promote and develop this sector.
- Establishment of a Solar panel system is being carried out to reduce consumption of electricity and expenditure for laboratories at Peradeniya.
- The National Floriculture Symposium was held on the 09th of November and Research papers related to the floriculture sector were presented. The first National level floriculture exhibition was held at the Diyatha Uyana in Battaramulla on November 09th, 10th and 11th with the participation of small and medium scale growers attached to “Suwahas Mal” Societies. All members of the “Suwahas Mal” organizations representing all district island wide, participated at this event.



**Arranging the earth to upgrade
the Vanda Plant House of the Orchid Unit as to
store the water**

5.7. Education and Training

Approved Budget: - Rs. 0.51.125 Mn from Capital Allocations
from Botanic Gardens Trust Fund: - Rs. 1.125 Mn

Expenditure 2018:- Rs. 1.574 Mn

Education and training facilities were upgraded at the school of floriculture and landscaping of the Royal Botanic Gardens.

- 47 Youths were trained under the three months certificate programme on modern floriculture method and garden landscaping.
- 04 candidates registered for the Landscape Assistant Certificate course which has National Vocational Qualification certification (NVQ- Level 4).
- One day training programmes on rose cultivation, nursery management, plant identification, tree surgeries and treatments, floral arrangements, post-harvest technology, garden landscaping and related subjects were conducted for 14,142 individuals. Awareness programmes were conducted for 30 individuals including school children as well.
- Training programmes were organized for capacity building of officers of the department. Services of local and resource persons were obtained to conduct various training programmes.



Training programme for the students of the Three Months Certificate programme



Conducting capacity building training programme for new recruits of the Department

5.8. Meegalawa “Haritha Piyasa” Training Center

Approved Budget: - Rs 7.50 Mn from Capital Allocations

Expenditure 2018:- Rs. 7.488 Mn

- Renovation of field office building No:-05 was completed.
- 38,320 plants were produced under the plant propagation programme.
- Establishment activities of the Shade House and plant sales center were carried out.
- In addition, machineries and equipment for garden activities as well as furniture and other office equipment for office use were also purchased.
- An irrigation system was established for proper maintenance and plants production. Garden benches were established for providing facilities, to those visiting this unit.
- A electric fence was erected prevent entry of wild animals to the premises and mitigate crop loss.

5.9. Mirijjawila Dry Zone Botanic Gardens, Hambanthota

Approved Budget: - Rs 65.370 Mn from Capital Allocations

from Botanic Gardens Trust Fund: - Rs. 1.250 Mn

Expenditure 2018:- Rs. 66.547 Mn

A large number of development programmes were carried out for upgrading public facilities and infrastructure of the garden.

- Construction activities of a new housing complex with 04 quarters was completed in addition to 03 existing quarters.



Newly constructed Housing complex with 04 quarters

- Construction activities of phase one of the building and store room for workers in floriculture section were carried out.

- Phase one of the floriculture exhibition center was constructed last year to facilitate marketing of products of small and medium floriculture intriprenun in the area and construction of phase 2 was completed in this year.



Newly constructed unit for waste water management in the garden

- Plants were purchased to enhance mother plant collections of the garden and upgrade the living collection.
- Construction activities were carried out to carpet and upgrade roads in the garden and a pit was also constructed for waste water management.

- Development activities have been carried out to enhance landscape features of the garden as well as foot paths, avenues, shrub gardens and flower beds to enhance out look of the garden. Appliances and equipment were purchased to establish a children's garden and play area with educational value for children.



Field development activities are beign carried out to upgrade the landscape features of the garden.

- Floriculture development activities of the garden were

continued to facilitate growers in the Hambantota and Matara districts. Workshops and training programmes were conducted to disseminate information and technical know how to growers and enhance their knowledge as well as technical skills in growing flowers.

- Plant conservation activities were carried out and new plant species were added to the collection to enhance living collection of the gardens. 23,544 plants were produced.
- A visitor center with mini herbarium, office area, conference room and library was established at the new southern entrance and phase II of the project was initiated and completed.
- Activities related to preparation of plant labels, descriptive boards and sign boards were carried out and handover to “Salasine” for printing.
- Construction of the security fence around the garden was completed.

5.10. Seethawaka Wet Zone Botanic Gardens, Avissawella.

Approved Budget: - Rs 29.090 Mn from Capital Allocations from
Botanic Gardens Trust Fund: - Rs.4.150 Mn
Expenditure 2018:- Rs. 32.868 Mn

Various development activities were carried out to enhance public facilities and maintain the gardens at high standards.

- A water tank was established to facilitate drinking water facilities for visitors. Establishment of this drinking water supply was carried out with in collaboration with the water supply and Drainage Board.
- Establishment of a part of the protective fence around the garden was carried out.



Establishment of protecting fence around the Rose garden

- Construction of a shade house for the nursery was initiated and completed. This is scheduled to be use of for the educational and training activities.



Field development activities of the garden

- Development activities were carried out for internal roads at nurseries of the floriculture section and establishment of garden benches was also carried out.

- Construction activities of a field office with a garage and a store room was completed.

- A new security hut was constructed.

- Modern irrigations systems were installed for shade houses of Anthurium and Orchids at the nurseries.



Construction of the in fieldoffice with a garage and a store room

- Garden development activities were carried out with improvement of flower gardens, foot paths and other sections of the gardens to enhance its landscape features and its beauty.

- Development activities were carried out for the Ferns section, Japanese Gardens, Rose Gardens and palmyrah collection.

- Plant conservation activities were carried out by adding more species to the living collection. Plant production activities were carried out and 47,322 plants were produced.

New machineries, equipment and gardens tools were also purchased and existing machineries were repaired for efficient management and maintenance of all gardens.

In addition to above development activities, The Commonwealth War Cemeteries in Kandy, Jawatta, Borella and Trincomalee, residential gardens of His Excellency the

President in Colombo-01, Kandy Nuwara-Eliya, Anuradhapura and residential gardens of the honourable Prime Minister at Temple Threes and Nuwara-Eliya were maintained at high standards and health of the sacred Bo-Three in Anuradhapura was also ensured.

Development activities of all gardens were carried out with financial assistance of the Botanic Gardens Trust Fund and it contributed to keep the gardens at high standards during the year 2018.

Annual capital allocation from the Garden Trust Fund was Rs.175 Mn for the year 2018 and Rs.174.535 Mn (99.7%) was expended for development of the Botanic Gardens.



Construction of a shade house for plant nursery was initiated and activities were being carried out

6. Positions created, Recruitments, Transfers, Released, Retirements and Deaths in 2018

6.1 New Positions created

Designations	Number of Designations Approved	Number of Total Approved Designations
Temporary Garden Labourer	50	50
Maintenance Assistant (contract)	50	50

6.2 Recruitments

Designations	Vacancies at 2018.01.01	Recruitments 2018
Technical Officer	01	01
Assistant charge collector	05	03
Security Guard	12	08
Nurseryman	01	01
Garden Labourer	151	134
Total		147

6.3 Transfers

Designations	Transfer to the Department	Transfer from the Department
Development officer	01	-
Management Assistant	10	07
Driver	05	03
Total	16	10

6.4 Released, Resignations and Vacated post from service

Designations	Released	Resignations	Vacated post
Director (Research and Technology Transfer)	01		
Assistant Director (Administration)	01		
Assistant charge collector		04	01
Office Assistant(KKS)	03		
Budder		02	
Garden Labourer	03	02	
Total	08	08	01

6.5 Absorbment

Mrs.M.G.Fonseka who had been serving as a programme Asistant has been absorbed to the Development Officers' Service.

6.6 Retirements and Deaths

Designations	Retirements	Deaths
Director General	01	-
Chief Accountant	01	-
Research Assistant (special grade)	01	-
Garden Development Assistant / Agricultural Instructor	03	01
Management Assistant	01	01
Driver	04	-
Office Assistant(KKS)	01	-
Budder	01	-
Nurseryman	01	-
Garden Labourer	05	-
Total	19	02

7. Staff Details of the Department

7.1 Senior staff of the Department at Head Office

Designations	Name of the Officer
Director General	Dr (Ms) S.A. Krishnarajah
Director (Development)	Mrs.H.C.P. Jayaweera
Director (Administration)	Mr.Y.M.Y. Yapa Bandara
Chief Accountant	Mr. W.T.U.De Mel
Internal Auditor	Mrs.N.T.Liyange
Accountant	Mr.D.M.Weerasekara
Civil Engineer	Mr.A.L.M. Mahir
Assistant Director (Planning)	Mr.H.G. Jayasekara

7.2 Tertiary Staff of the Departmental Head Office

Designations	Name of the Officer
Administrative Officer	Mrs.H.R.M.A.M. Rathnayaka.
Government Translator	Mrs.D.G.Walisinghe
Government Translator	Mr.B.Tharik Ali

7.3 Senior Staff of the Departmental Office Units

Designations	Name of the Officer
The Deputy Director – Royal Botanic Gardens	Dr.(Mrs.)A.M.A.S. Attanayaka
The Deputy Director - Floriculture Research Unit	Mr.A.M.D.J. Senarathna
Assistant Director – Gampaha Botanic Gardens	Mrs. M.C. Wickcramasinghe
Assistant Director - Assistant Director's office, Narahenpita	Mrs.R.S.W.Gomaz
The Deputy Director – National Herbarium	Dr.(Mrs.) R.A.S.W. Ranasinghe
Assistant Director – Sithawaka Wet Zone Botanic Gardens	Mr.P.D.S. Wijerathna.

8. Capacity Building of Staff and Training

8.1. Foreign Training Programmes

	Programme	Country	Time	Designations	Amount of the officer
1.	International Programme on Management Auditing for the Public Sector Internal Auditors	Malaysia	From 2018.01.17 to 2018.01.23	Chif Internal Auditor	01
2.	Landscape Gardening, Management and Nursery Management	Singapore	Form 2018.04.13 to 2018.04.29	Garden Development Assistant	02
3.	Environmental Management of Nature Parks and Reserves	Ishrayal	From 2018.06.10 to 2018.06.29	Director (Development)	01
4.	Leadership Development for Research Managers Training Course	Thailand	From 2018.05.30 to 2018.06.10	Depnty Director (Floriculture)	01
5.	Seminar on Import and Export Management and Protection of Endangered Species for Developing Countries	China	From 2018.06.25 to 2018.07.15	Programme Assistant Development Assistant Agriculture Monitoring Officer	11
6.	Training Programme in Indian Public Sector	India	From 2018.07.30 to 2018.08.03	Assistant Director (Planning) Director (Administration) Assistant Director	03
7.	International Programme on Management	Thailand	From 2018.11.25 to 2018.12.02	Assistant Director (Royal Botanic Gardens)	01
8.	International programme on “Enterprise project and Organization Management” in Thailand	Thailand	From 2018.11.04 to 2018.11.10	Chief Accountant Internal Auditor	02
9.	IABG Training Programme	China		Assistant Director	21

8.2. Staff Trainings from other External Units (Local)

Serial No:	Trainings Date	Name of the Training	Training Station	Officers Participated
01	2018.02.22 2018.02.23	Use and maintenance of generator	Construction Industrial Development Authority	Mr.I.G.Susantha Samaranatha
02.	2018.03.08 2018.03.09	Establishment Code and Financial Regulations	Nipunatha Piyasa	Mrs.B.M.Amitha Kumari
03	2018.03.28 2018.03.29	Project Management	Sri Lanka Foundation	Mrs.H.C.P.Jayaweera Mr.H.G.Jayasekara Mrs.M.Malawaraarachchi
04	2018.03.27 2018.03.28	Use and maintenance of generator	Constrection Machinery Training Institution	Mr.I.G. Susantha Samaranatha
05	2018.06.28 2018.06.29	Project Regulations and Evaluation	Sri Lanka Foundation	Mr.H.G. Jayasekara Mrs. M.Malawaraarachchi
06	2018.07.23 2018.07.24	Financial Regulations 104-Recording Damages and Accounting	Nipunatha Piyasa	Mr. Y.M.Y. Yapa Bandara. Mrs.D.L.Chithra Rohini Mrs.P.U.Gamage. Mrs.S.K.Wickramasinghe Mrs.Bhagya Prabodini Sampath
07	2018.07.26	Role of Accounts clerk and their obligations	Nipunatha Piyasa	Mrs.Priyantha Athauda Mrs.D.U.S.S.Amaradasa
08	2018.07.30 2018.07.31	Procurement Planning and Preparing Bid Documents	Nipunatha Piyasa	Mrs.P.B.W.M.P.K.ehalagolla Mrs.A.C.R.Roshan.
09	2018.08.03	Vehicle Management	Nipunatha Piyasa	Mr.M.B.Junaideen.
10	2018.08.09 2018.08.10	Proper Organization Planning Networks and Stores Management	Construction Industrial Development Authority	Mr.K.A.D.U.Ariyasinghe. Mr.Shantha Jayarathna
11	2018.08.14	Tax Law Pay with holidays an capital gains	PRAG SERVICES(PVT)LTD	Mr.W.T.U. De Mel Mr.D.M.Weerasekara. Mrs.S.K.Wickramasinghe Mrs.I.T. Premasinghe. Mrs.N.T.Premathilaka. Mrs.M.L.Ediriwickramasuriya
12	2018.09.20 2018.09.21	Salary Conversion-Workshop	Nipunatha Piyasa	Mrs.S.K. Wickramasinghe Mrs.I.T. Premasinghe Mr.S.A.L.Samaraweera Mrs.A.M.N.Kumari Mrs.K.G.S.Shanika Ms.D.G.Lalani

09. Activity Plan for- 2019

Programmes/ Activities	Allocation (Rs.Mn)	Fund Source
Development Programme of Royal Botanic Gardens, Peradeniya		
Renovation activities of buildings, quarters, machineries and vehicles	18.5	Capital / Botanic Gardens Trust Fund
Purchasing of new instruments, office equipment and machineries	7	Capital
Waste Management Programme	1	Capital
Upgrading living collection and Ex-situ conservation activities	1	Botanic Gardens Trust Fund
Construction of Botanic Gardens Museum and Information Center	24	Botanic Gardens Trust Fund
Interior designs of the Museum and Information Center	3	Botanic Gardens Trust Fund
Conservation of river bank close to the Plant Nursery	6.5	Capital
Establishment of new toilet complex at the Spice Garden.	8	Capital
Rehabilitation of Ma Oya water supply system	1.8	Botanic Gardens Trust Fund
Construction of Protective Fence of the native plant collection	1.5	Botanic Gardens Trust Fund
Plants labelling, descriptive boards and fixing sign boards educational programmes, printing of information leaflets.	1.5	Botanic Gardens Trust Fund
Land development and maintenance	5	Botanic Gardens Trust Fund
Renovation of stores	8	Botanic Gardens Trust Fund
Curbing roads with colourful stones	1.2	Botanic Gardens Trust Fund
Upgrading outdoor plants nursery	3	Botanic Gardens Trust Fund
Total	91	
Development Programmes of Hakgala Botanic Gardens		
Upgrading internal road system	2	Botanic Gardens Trust Fund
Upgrading living collections and plant conservation activities	0.4	Botanic Gardens Trust Fund
Land development and maintenance activities	7.8	Botanic Gardens Trust Fund
Establishment of car park	12	Botanic Gardens Trust Fund
Construction of chain link fence	4.0	Botanic Gardens Trust Fund
Renovation of buildings, machineries and vehicles	1	Capital

Programmes/ Activities	Allocation (Rs.Mn)	Fund Source
Purchasing of new instruments, office equipment and machineries	1.5	Capital
Construction of new toilet complex	3.5	Capital
Establishment of cafeteria and resource center (Phase I)	3	Botanic Gardens Trust Fund
Improvement of water drainage system	3	Botanic Gardens Trust Fund
Construction of stores (Phase II)	11	Botanic Gardens Trust Fund
Establishment of Glass House	7	Botanic Gardens Trust Fund
Development of Medicinal Plant Gardens and Herb Plants Gardens	1	Botanic Gardens Trust Fund
Development of Moss plants gardens	0.3	Botanic Gardens Trust Fund
Upgrading of plant sales center	0.5	Botanic Gardens Trust Fund
Total	58	
Development programme of Gampaha Botanic Gardens		
Purchasing of new instruments, office equipment and machineries	1.3	Capital
Upgrading protecting fence around the garden	2.5	Capital
Rehabilitation of Electrical, Telecommunication and water supply system	1.5	Capital
Upgrading plant collections and conservation activities	1	Capital
Renovation of ticket counter and security rooms	10	Capital
Preparing name boards, fixing sign boards, publications	0.5	Capital
Land development and maintenance activities	5	Capital
Conservation of bank of the garden close to the Attanagala Oya	7.5	Capital
Establishments of iron fence	4	Capital
Creation of exhibition area	1	Capital
Total	34.3	
Floriculture Development Programme		
Research and development activities and various maintenance activities in the laboratory of the Floriculture Development Unit	7.0	Capital
Publication of leaflets, newspapers related to floriculture	1.0	Capital
Plant exhibitions and organization of promotional programmes	2.0	Capital
Providing assistance to growers by supplying plants and material for infrastructure development	18.0	Capital
Upgrading plant nurseries and cultivation areas	8.1	Capital

Purchasing materials, plant sales and planting activities	4.0	Capital
Training sessions, workshops, Seminars, Conferences and conducting field tours for	6.	Capital
Purchasing mother plants	3	Capital
Total	49.1	
Development programme of the Ganewatta Medicinal Plant Garden.		
Purchasing of new instruments, office equipment and machineries	1.1	Capital
Upgrading plants collections and conservation activities	0.5	Capital
Fixing of plants names boards and descriptive boards	0.1	Capital
Upgrading lands and other maintenance activities	5	Capital
Establishing water supply system for cultivation activities	3.7	Capital
Total	10.4	
Development programme of Mirijjavila Dry Zone Botanic Gardens		
Purchasing and repair of office equipment , machineries, etc.	5.45	Capital
Establishment of a building with facilities for workers and a store room inside the floriculture section (phase I)	4.5	Capital
Road development	4.4	Capital
Establishment of children garden	2	Capital
Upgrading plant collections and conservation activities	2	Capital
Plant names boards, fixing exhibition and descriptive boards	3	Capital
Land development and maintenance activities	5.9	Capital
Construction of research and center	33	Botanic Gardens Trust Fund
Establishment of an additional water supply tank	3.5	Capital
Purchasing of a battery bus	4	Botanic Gardens Trust Fund
Total	67.75	

Programmes/ Activities	Allocation (Rs.Mn)	Fund Source
Development programme of Seethawaka Wet Zone Botanic Gardens		
Purchasing of office equipment, machine and other materials painting of buildings	2.85	Capital
Establishment of office building	35	Botanic Gardens Trust Fund
Construction of 02 field offices and a canteen for workers	3	Capital
Upgrading the plant sales area	5	Capital
Renovation of quarters	1.0	Capital
Establishment of 03 gates and protective fences	5	Capital
Establishment of mother plant collections	0.5	Capital
Establishments of solar power systems	1	Capital
Fixing plant names boards, descriptive boards and exhibition boards	0.5	Capital
Construction of summer houses	2	Capital
Purchasing battery cars	3	Capital
Establishment of 02 tanks for sanitary waste purification	1.5	Capital
Land development and maintenance activities	4.3	Capital
Road development	4.5	Capital
Development of an existing old building into quarters	4	Botanic Gardens Trust Fund
Total	73.15	
Development programme of Meegalewa		
Upgrading drainage system around the premises	1	Capital
Construction of old building	1	Capital
Land development and maintenance activities	1	Capital
Total	3	

Programmes/ Activities	Allocation (Rs.Mn)	Fund Source
Development programme of National Herbarium		
Plant exploration programme and plant educational activities	2.0	Botanic Gardens Trust Fund
Maintenance activities of the National Herbarium	2	Botanic Gardens Trust Fund
Preparing publications, printing and purchasing of books	2	Botanic Gardens Trust Fund

Conducting workshops and educational programme	1.0	Botanic Gardens Trust Fund
Upgrading laboratories and updating data system related to the other scientific services	7.5	Botanic Gardens Trust Fund
Planning and designing a Molecular Biological laboratory and obtaining consultant of services	7	Botanic Gardens Trust Fund
Renovation activities of National Herbarium	10	Botanic Gardens Trust Fund
Total	31.5	
Research, Educational and Training Programme		
Providing facilities for training programmes and maintenance activities	1.5	Botanic Gardens Trust Fund
Participating in training programmes for capacity building of officers of the department (Local/ Foreign)	1.0	Capital / Botanic Gardens Trust Fund
Total	2.5	
Upgrading activities of the Head office and beautification and promotion activities of the Botanic Gardens		
Upgrading activities of the Head Office	3.5	Capital / Botanic Gardens Trust Fund
Promotional activities and beautification of garden	6.5	Botanic Gardens Trust Fund
Total	10	
Development of Galle project	1	Botanic Gardens Trust Fund
Total	431.7	