Strategic plan for the Development of the Green Infrastructure for the University of Vavuniya
Submitted to : The Council of University of Vavuniya
Submitted by : Landscape and Green Environment Committee

UNIVERSITY OF VAVUNIYA
LANDSCAPE AND GREEN ENVIRONMENT COMMITTEE
STRATEGIC PLAN FOR 2023-2027

Goal - 01: Enhancing the green cover to make our land environmental friendly with biodiversity

Objectives		Key Performance Indicators	Present Level of Performance	Desired Performance targets (Cumulative targets)					Strategy	Action Plan	Time line	Co-coordinating responsibility	Estimated inputs and Cost (RS.)
				2023	2024	2025	2026	2027					
1.1	To introduce new plant species (Trees/shrubs/ vines/ ground covers/ herbs/ lawns etc.) to increase the green cover	Number of new plants (Trees - saplings)	10	15	20	30	40	50	Enhance the flora diversity within the university premises	1. Collect new seeds and saplings beyond the university's boundaries, especially, species that do not exist at UOV. (Northern Province or other areas) 2. Implementing projects with students to introduce new plant species from their native places	2023-2027	Registrar, Bursar, Curator (Landscape)	LKR 60,000
		Number of Shrubs	30	50	60	70	80	100		1. Introduce the shrubs in appropriate locations and under the necessary conditions (sunlight, water,medium,etc.). 2. Increase the number of plants through layering, cuttings, or seeding 3. Use as a screen or barrier (at eye level, hip level, knee level, etc.) 4. Give life and colour to the garden 5. Give greenery effect 6. Give variation to the garden	2023-2027	Registrar, Bursar, Curator (Landscape)	LKR 50,000
		Number of Ground covers	5	8	10	12	14	15					LKR 25,000
		Number of vines/ creepers	5	6	7	8	9	10					LKR 25,000
		Number of herbs	10	12	15	20	25	30					LKR 50,000
		Number and Area of Lawn	2	2	3	3	3	3					LKR 500,000

1.2	To Increase the exsisting plant density to create the green cover/ infrastructure	Number of plants (Trees - saplings)	1500	2500	3500	4500	6000	8000	Enhance the plant density and green cover (Ornamental, Medicinal, Shade, Fruit and etc.)	1. Encourage university students and societies to participate in green environment activities (E.g. tree plantations, landscape practices, etc.) 2. Increase the number of existing plant species by propagation (seeds, cuttings, budding and layering).	2023-2027	Registrar, Bursar, Curator (Landscape)	LKR 1,200,000
1.3	To interact with many plant species in order to conduct research and study.	Number of Competitions / work shops etc	0	1	2	3	4	5	Integrating nature into education and learning.	1. Organizing competitions, exhibitions, and workshops to promote "Green Environment and sustainable activities"	2023-2027	Registrar, Bursar, Curator (Landscape)	LKR 100,000

Goal-02: Enhance the aesthetic and functional aspects of the university area

Objectives		Key Performance Indicators	Present Level of Performance	Desired Performance targets (Cumulative targets)					Strategy	Action Plan	Time line	Co-coordinating responsibility	Estimated inputs and Cost (Rs. In Million)
				2023	2024	2025	2026	2027					
2.1	To increase the softscape, hardscape and waterscape features to build attractable ambience (Aesthetic aspects)	Number of features or landscape activities by areas	5	7	10	15	20	25	Engage in the staff, students, visitors/tourists, and the community on nature related activities.	1. Avenue plantation (Softscape) 2. Build the hardscape features (statues, stone benches, retaining walls, walkways, patios, compost bins, trellis, fences, walls, gates, etc.) 3. Build the waterscape features (fountains, cascades, and ponds)	2023-2027	Registrar, Bursar, Curator (Landscape)	50

2.2	To enhance the places for active and passive activities (Functional aspects)	Number of features or landscape activities by areas	1	2	3	4	6	8	Encourage gathering with friends for relax, leisure, education, or enjoyment with nature.	**1.** Construct benches for relaxation and community interactions (Benches made of stone/ wood/ metal) **2.** Install walkways/ driveways (concrete/ tar/ interlock/ gravel/ metals- chips/ pebbles/ tiles/ bricks etc) for walking/ jogging **3.** Build various nature garden within the university premises (Herbal/ Butterfly/ Garden for blind)	2023-2027	Registrar, Bursar, Curator (Landscape)	50
2.3	To promote a green environment in the university premises	% of university premises adopted the greening environment	5%	10%	10%	20%	30%	40%	Promote the recreational activities, teaching and learning practices with the Green/Nature environment	**1.** Designing the master plan adopting greening environment **2.** Landscaping **3.** Establishment of Nature Trail in the Forest Patch **4.** Establishment of Herbal Garden **5.** Establishment of Cacti and Succulent Plant House **6.** Tree Plantation (Avenue) - Green corridor system **7.** Build the natural water bodies **8.** Initiate the projects/ Proposed landscape activities with the standard proposals **9.** Implement the Projects with the support of sponsors fund **10.** Introduced the indoor Green concept with pot plants	2023-2027	Vice Chancellor, Registrar, Bursar, Deputy Registrar, Works Engineer, Curator (Landscape)	600
2.4	To ensure the provision of basic infrastructure facilities to cater to differently-abled persons in proposed landcsape activity areas	% of Outdoor recreational areas (building) accessibility to disable students.	0%	10%	15%	20%	25%	50%	Improve the outdoor (building) infrastructure for easy access	**1.** Establishment of Garden for Blind **2.** Develop the proposal with the consultant **3.** Implement the Projects with the support of sponsors fund **4.** Facilitate the access for outdoor areas **5.** Facilitate the safety guidance and signs in all access and recreational areas **6.** Invite the visually impaired community people **7.** Document the video with the feedback	2023-2027	Vice Chancellor, Registrar, Bursar, Deputy Registrar, Works Engineer, Curator (Landscape)	450

Goal-03: Empowering the physical and human resources of the landscape division for proper landscape management

Objectives		Key Performance Indicators	Present Level of Performance	Desired Performance targets (Cumulative targets)					Strategy	Action Plan	Time line	Co-coordinating responsibility	Estimated inputs and Cost (Rs. In Million)
				2023	2024	2025	2026	2027					
3.1	To increase non-academic cadre positions and contract labours based on requirements by 2027.	No of administrative positions.	Curator (Landscape) 01	1	1	1	1	1	Recruit adequate administrative and non academic staff members	1. Filling the vacancies 2. Get approvals from the DMS 3. Identify the staff needs and provide required training	2023-2027	Registrar, Bursar, Deputy Registrar (Establishment), Curator (Landscape)	(Salaries approved by the cadre commission)
		No of non-academic positions.	Supervisor (Landscape) 00	0	0	0	1	1					
			Management Assistant 00	0	0	1	1	1					
			Gardener 00	0	1	1	2	3					
			Mason 00	0	0	0	1	1					
			Tractor Operator 00	0	0	0	0	1					
			JCB/ Bobcat Operator 00	0	0	0	0	0					
			Store Man 00	0	0	0	0	1					
			Work Aid 00	0	1	1	1	1					
			Trainees 00	1	2	2	2	2					
			Outsource Labours 04	5	7	9	11	13					
3.2	To improve the efficiency of administrative operations through providing adequate physical	% of new building and other infrastructure.	5%	8%	10%	15%	25%	35%	Develop the detailed proposals to get the fund/ donation from Organizations/	1. Building for Landscape Division • Office • Store Room and Garage • Provide adequate space for each office • Provide adequate office aid equipment to all the staff members 2. Water Tank (Gardening) 3. Recreation Building 4. Build a rainwater harvest/ Collection system 5. Installation of irrigation network (Water otlets/Drip) 6. Establish the net house and poly tunnel house 7. Expand the capacity of nursery stock 8. Establishment of nesti and	2023-2027	Vice-Chancellor ,Registrar, DR, Works Engineer, Curator	1000

	resources as well as other infrastructure								wellwishers	8. Establishment of cacti and succulent plant house 9. Establish the Plant and Compost Sale Center 10. Build 'Iconic' Hardscape Features 11. Initiate the projects/ Proposed landscape activities with the standard proposals 12. Implement the Projects with the support of sponsors fund 13. Buffer zone development in forest pocket		Curator (Landscape)	
3.3	To equip adequate transport and other general machineries and equipment	Number of adequacy in transport and Maintenance	0	0	0	1	1	2	Improve tansportation and Maintenance facilities for landscape activities	Purchase the transport and maintenece machineries and equipments 1. Tractor with trailer - 01 2. Tractor with Bowser - 01 3. Four wheels Grass Cutter/ Lawn Mower - 01 4. Bobcat/ JCB - 01 5. Intercultivator - 01	2023-2027	Registrar,Bursar, Deputy Registrar (Capital),Assistant Registrar (General),Works engineer	500
		Number of adequacy in general equipment and tools	4	4	5	6	6	7	Advertise the needs for the development of green infrastructure to get the third party support & Improve maintenance facilities	Purchase the other general equipments related to the landscape and managements 1. Brush Cutter - 06 2. Power Sprayer - 02 3. Battery Sprayer - 04 4. Chain Saw - 02 5. Pit Digging Machine/ Earth Auger Machine - 01 6. Electric hedge trimmer - 01 7. Garden shredders (Small/ Medium) - 01 8. Leaf Blower - 01 9. Edger 10. Other manual tools	2023-2027	Registrar, Bursar, Assistant Registra (General), Works Engineer, Curator (Landscape)	20
		Number of materials	0	2	4	6	8	10		1. Advertise the needs by the proposals 2. Contact the wellwishers, national/ international organizations etc.	2023-2027	Vice-chancellor, Dean/FAS, Registrar, Bursar,	Donation
		Number of tools	0	2	4	6	8	10					
		Number of equipments	0	1	2	3	4	5					

3.4	To encourage the third party to support resource enhancement	Number of infrastructure	0	0	0	0	0	1	Connect the university staff & students, individuals, societies, national & international organization etc. for donation	3. Advertise their donation in university web page.		Curator (Landscape)	
		Fund amount in LKR	Rs,25,000	2 Lakhs	4 Lakhs	6 Lakhs	8 Lakhs	10 Lakhs		1. Organize the plantation for the particular person on his birthday/ memorable day 2. Handover the photos (Softcopy) to the person. 3. Plant type & Location will be decided with the curator (Landscape) concern according to the masterplan	2023-2027	Vice-chancellor, Dean/FAS, Registrar, Bursar, Curator (Landscape)	Donation

Goal-04: Empowering the human resources to enhance the green environment

Objectives		Key Performance Indicators	Present Level of Performance	Desired Performance targets (Cumulative targets)					Strategy	Action Plan	Time line	Co-coordinating responsibility	Estimated inputs and Cost (Rs. In Million)
				2023	2024	2025	2026	2027					
4.1	To develop soft & hard skills relevant to landscape activities	% of skill peoples within the institute	5%	10%	15%	20%	25%	30%	Provide adequate training to enhance theoritical & practical knowledge about proper landscape management	1. Training the all staff about the greening environment 2. Practice greening environmental policy in all development activities	2023-2027	Vice-chancellor, Registrar, Bursar, Curator (Landscape)	0.5

Goal-05: Enhancing the knowledge dissemination of the landscaping and horticulture gardening activities

Objectives		Key Performance Indicators	Present Level of Performance	Desired Performance targets (Cumulative targets)					Strategy	Action Plan	Time line	Co-coordinating responsibility	Estimated inputs and Cost (Rs. In Million)
				2023	2024	2025	2026	2027					
5.1	To visualize the landscape features/ elements of the university area to get the ideas by drawings	% of areas - 2 Dimension drawings	10%	30%	40%	50%	60%	75%	Execution of the ideas with the dimension/ point out the areas to execute the plan step by step	1. use the software (AutoCAD/ Realtime landscape architect) to develop the drawings 2. Develop the 2D drawings for individual areas and Total areas	2023-2027	Curator (Landscape)	0.5
		% of areas - 3 Dimension drawings	0%	20%	40%	50%	60%	75%	View of the elements for the areas (For upgrade)	1. use the software (AutoCAD/ Realtime landscape architect) to develop the drawings 2. Develop the 3D drawings for each area (Individual and Whole) 3. Upgrade the drawings with the future consideration (Added features)	2023-2027	Curator (Landscape)	2
5.2	To provide the detailed information of landscaping elements for the particular areas(Soft and hard materials) with the drawings and documents	Number name boards for plants/Trees in different areas	0	50	100	200	300	400	Display & publishing detailed information onsite & online	1. Fix the name boards for Plantations (Trees) 2. Install the maps for the specific areas (Herbal garden/ Garden for blind etc) 3. Upload and Update the informations on landscape division site in the university web (Documents - Presentations/videos)	2023-2027	Registrar, Bursar, Curator (Landscape)	10
		Number of maps & other	0	0	1	1	1	2					
5.3	To arrange the Landscape and Gardening practices/ programmes for the promotions	Number of programmes	0	2	4	6	8	10	Introduce different programs/trainings to knowledge dissemination of landscape & horticulture practices	1. Training the school students and community 2. Organize the gardening practices for university students and staffs • Layering/ Budding • Root Balling • Miniature Garden • Bonsai • Bottle Garden	2023-2027	Registrar, Curator (Landscape)	5

Goal-06: Improving the landscape and gardening features and practices by the proper management/maintenance

Objectives		Key Performance Indicators	Present Level of Performance	Desired Performance targets (Cumulative targets)					Strategy	Action Plan	Time line	Co-coordinating responsibility	Estimated inputs and Cost (Rs. In Million)
				2023	2024	2025	2026	2027					
6.1	To encourage the effective & efficient water management practices involve in minimum human resources/ man power	% areas to install the irrigation source/ line/ outlets	5%	10%	15%	25%	35%	50%	install the separate irrigation water tank/ source with the irrigation network, facilitate the irrigation outlet for the every functioning areas and exist roads	1. Prepare the irrigation network map 2. Install the different type of irrigation (Manual/ Sprikler/ Drip/ surface) 3. Evaluate the water requirement for the each areas (Per day/ weekly/ Monthly) 4. Establish the well/ Tube well/ other with the seperate water tank (Only for gardening) for each areas (functioning areas) 5. Install the water outlets in required distance (approx. 20m) 6. Install the different type of outlets 7. permanent visual/ proper installation (to avoid damages by vehicle movement)	2023-2027	Registrar, Bursrar, Works engineer, Curator (Landscape)	300
6.2	To maintain the beauty of the Plantation/features (Induce the growth and keep the vegetation with fresh conditions)	Number of applications with the requirements/ intervals	7	24	36	48	60	72	Practice the landscape and gardening activities, provide the nutrient sources (Fertilizer/ water) for the growth & survival	1. Watering/ irrigation 2. Application of fertilizer (Organic/ Inorganic and Granules/ Liquid) 3. Pruning the branches (Over grown/ dead branches) 4. Trimming the hedge plants/ boxux plants/ vines/ creepers 5. Grass cutting/ mowing 6. Raise the fund for the maintenance works with the approval	2023-2027	Curator (Landscape)	50
6.3	To maintain the healthy of the	Number of application and treatments	7	24	36	48	60	72	Practice the different protection & safety	1. Application of Pesticides (Insecticide/Fungicide) 2. Hazardous treatment for trees in regular access areas (Identification of damage plantation and practice the treatment/ removal of portion/ plant)	2023-	Registrar, Bursar,	1

	trees & ensure the safety	with requirements / intervals							measures of the tree	3. Purchase the hazardous treatment tools 4. Control the soil erosion 5. Control the bush fire by heat tolerant vegetation along the fence & other practices	2027	Curator (Landscape)	

Goal-07: Increasing the income generation projects for the developments of the landscaping and horticulture gardening

Objectives		Key Performance Indicators	Present Level of Performance	Desired Performance targets (Cumulative targets)					Strategy	Action Plan	Time line	Co-coordinating responsibility	Estimated inputs and Cost (Rs. In Million)
				2023	2024	2025	2026	2027					
7.1	To generate income by Connect the community and organizations with the university	Number of Production (Trees saplings)	200	4800	9600	14800	19200	24000	• Establish the net house and plant sale center • Paid traning programmes	1. Draw the proposal and get an approval from the council 2. Establish the net house 3. Purchasing materials (Polybags roll, Polythene sealer machine etc.) 4. Propagate the saplings by seeds/ Cuttings (Monthly Target - 400 - 5. Prepare compost (Organic) for internal usage and sale 6. Maintain the stock information through website (Plant types, size etc.) 7. Develop the webpage with the approval	2023-2027	Vice-chancellor, Registrar, Bursar, Curator (Landscape)	10
		Number of Production (saplings - Shrubs/Ground covers/ Climbers/ Water plants)	500	5000	10000	15000	20000	25000					
		% of Sales (Saplings - Tree)	0%	10%	20%	25%	30%	50%		1. Arrange the payment through finance administration 2. Locate the Sales center (Near the Landscape Division/ General administation Building)			
		% of Sales (Saplings - Shrubs/Ground covers/ Climbers/ Water plants)	0%	10%	20%	25%	30%	50%					
		Number of Programs	0	1	2	3	4	5		1. Train the peoples to develop the drawings 2. Organize the events (Landscape & Horticulture practices)			