



DONATION FOR THE GREEN ENVIRONMENT DEVELOPMENT

UNIVERSITY OF VAVUNIYA

ABSTRACT

There are two type of donation;

- Donation of Fund
 - Tree plantation as day of remembrance or retrospective with the minimal fund per tree.
 - For the purchasing of the goods
 - For the green infrastructure development of the university environment
- Donation of Goods
 - Materials/ Tools/ Equipment/ Machinery

Donation for the Green Environment Development



- Donation of Fund

-For the Plantation with the Maintenance
 - Plant a tree for the day of remembrance - Plantation photography will be uploaded at social media with the details of remembrance (F: University of Vavuniya)
 - Plant sapling will be tagged by the name/ Other remembrance.

-For the purchasing of goods
 -For the development of Landscape & Green Infrastructure (Projects - Gardens/ Huts/ Benches/ Pathways/ etc.)

- Donation of goods
 - Materials/ Tools or Equipment / Machinery

NOTE: If you wish to contribute to the development of the green environment of the University of Vavuniya; Please click the below links (To know details & fill google form)
 - To know the needs or requirements of goods/ infrastructure / other details shortly. (PDF document) - (Link)
 - For the payment (At / Through Bank - Account Number of UOV (Check it above) OR Staff/counter/Finance administration,University of Vavuniya, Pampalamada.
 - To fill the donation details and attach Payment Receipt - <https://forms.gle/8d1ANZk1C2q6q> (Google form link)

Remembrance - Tree Plantation	Photography	Name,Tag
Local (Rs. 2000 Min.)	Foreign (US\$ 200Min.)	Account Number of UOV
Bank : People's Bank	Bank Code : 7135	Branch : Vavuniya
Branch Code : 040	Swift Code : P88KLLKX	Account Name : University of Vavuniya
Account Number : 940-1-003-8-1640087		



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A. INTRODUCTION

University of Vavuniya is newly established by August 2021 as 17th university in Sri Lanka. We are the 1st proposed 'Arboretum University' in Sri Lanka as we work toward to develop the landscaping environment to support green infrastructure to evolve students and staff by connecting teaching and learning with nature.



Regarding the current economic situation of Sri Lanka, we could not implement proposed landscape activities with the maintenance of a green environment since the fund allocation for landscaping and maintenance activities given to the University of Vavuniya by GOSL is inadequate to startup landscaping activities and to maintain the green environment of the university premises. Further, it is required to provide the green infrastructure facilities (ex-Gardening, Irrigation facilities, stone benches, green house, etc.) and landscaping tools, machineries & equipment and adequate labour force to achieve our target of making the University of Vavuniya as an '**Arboretum university**' in the years to come.



There are number of ways to acquire the planting materials, gardening equipment & tools and sustain the green environment of the university premises. Individuals, Government organizations and other private organizations are ready to provide the plant saplings to implement the plantations without maintenance after the plantation. We have stock of the plant saplings (by donation and propagation) at the net house and waiting for the rainy season to initiate the plantation to minimize the maintenance activities (Mainly watering). Currently we are facing difficulties to water the newly planted trees with the lack of water source outlet and the lack of existing landscape laborers and machineries.

Hence it is proposed to search for donations of planting materials, gardening tools & equipment, fertilizers and to raise funds from the university staff, students, other well-wishers and private organizations (National & International) to compensate for inadequate fund allocation given by the government for such purposes.

The 10th council meeting held on 30th July 2022 approved for the fund-raising activity to develop the green environment and landscaping of the university of Vavuniya.

A committee consisting of vice-chancellor, Dean/ Faculty of Applied Science, Registrar, Bursar and curator (Landscape) will monitor the fund and decide on utilization of such funds donated for general landscaping activities.



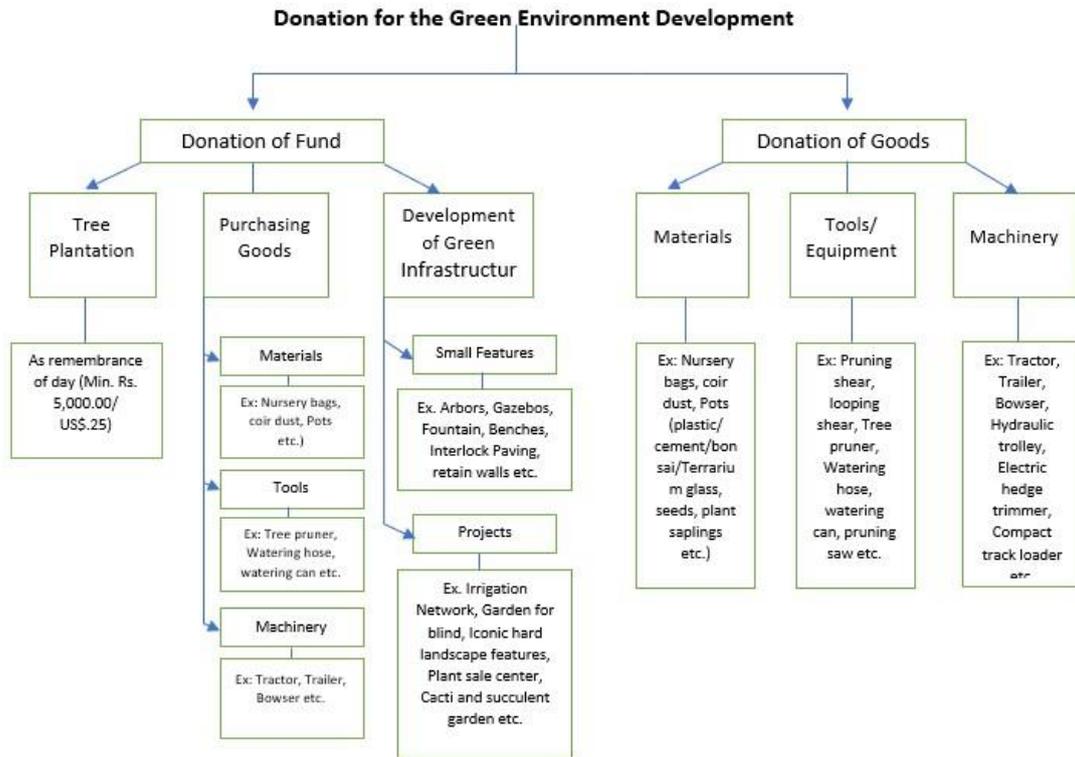
B. OBJECTIVES

Objectives of the donation for the green environment development

- To bring the foreign currency to Sri Lanka
- To enhance the network of the University of Vavuniya with the local & foreign parties
- To provide the natural environment to teaching and learning for the students and staffs
- To motivate the students and staffs to involve in the green environment development activities (Tree plantation & Maintenance – Day of remembrance and green infrastructure)
- To make the University of Vavuniya as a tourist center to develop the tourism
- To promote the necessity of the green environment development for society
- To empowering the staff and students to enhance their knowledge on green environment



C. CATEGORY OF DONATION



Donation is categorized into two types. They are;

I. Donation of fund

a. For the tree plantation



'Tree Plantation (Jack Fruit Tree) as remembrance of Vice-chancellor Birthday'

- b. For the purchasing goods



‘Fund by Green Layer Environmental Organization, Neervely’

- c. For the development of landscape and green environment infrastructure



(Examples of infrastructures – Sitting hut/ gazebos and Shade net house)

II. Donation of goods

- a. Materials

Ex: Plant bags, Poly sheet, Pots, Compost etc.



b. Tools/ Equipment

Ex: Pruning shear, Hand shovel, Tree Pruner etc.



c. Machineries

Ex: Battery sprayer, Tractor with mower, Electric hedge trimmer, Tractor with trailer and bowser etc.



a. Donation of Fund

i. For the Plantation (Tree Plantation)

A person or group of people or organization can plant a tree as remembrance of the day (Birthday/Anniversary/ souvenir day/ retrospectives/ etc.). Plant type (Fruit trees/ Medicinal trees/ Shade trees/ Ornamental trees/ etc.) and planting locations (Faculties/ Common Areas) could be decided by the respective with the possibility. Plant species and position (Exact) will be decided based on the proposed master plan with the consent of the curator (Landscape).

Cost of plant – Rs. 500

Plant costs differ with plant type/ species/ height/ method of propagation – by seeds/ bud/ layer etc. Regarding the above factors, Rs.500 is fixed/ plant

Cost for maintenance/ tree – Rs. 4,500 (For 2 Years)

(Maintenance - Watering, weeding/ cleaning/ Application of fertilizer/ Application of pesticides/ Pruning/ Protection against wild animal or uncertainty weather – Plant cage or support)

Plant saplings are required two years of maintenance (Special attention) to adapt to the environment and avoid physical damages for the effective growth. Initial maintenance period also differs with the plant species, height, weather, climate, soil and other factors. Regarding the above factors, 2 years are considered.

We decided to charge Rs. 5,000 for the day of remembrance who is willing to plant a tree in the university premises. Plantation arrangement will be organized by the Curator (Landscape) on that day once you submit or attach the payment receipt copy (*Receipt Description - Donation for the green environment development*) from the finance administration (Shroff Counter - Voucher) or bank (E-receipt/ copy) prior to one week.

Please fill the google form once you received the payment receipt and attach the bank receipt or paying voucher receipt along with the google form link <https://forms.gle/6dwqoc3CvPWNWBtN6>.

Plantation photography will be uploaded (with the willingness of the respective person) in the university social media (Facebook) and will be tagged to the respective person's social media.

- a. As Remembrance
 - i. Birthday/ Anniversary/Retrospective
- b. Rs. 5,000/ Tree or US\$25/ Tree
 - i. Cost of plant sapling (LKR 500.00)
 - ii. 2 years Maintenance (LKR 4,500.00)
- c. Plant Type
 - i. Fruit/ Medicinal/ Ornamental/ Shade (Proposed)
- d. Planting Location
 - i. Faculties/ Common Areas
- e. Advertisement and Remembrance
 - i. By Social Media
(Photograph – Facebook/ Instagram/etc.)
 - ii. By Name Tag



By Social Media -Upload Photo



By Name Tag – Upload Detail

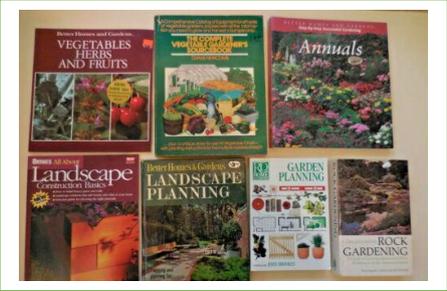
(Future concern - Name tag will be hanged at the tree – With the remembrance – name & day)

- ii. For the purchasing of goods (Landscape & gardening related)

Proper and advanced tools and machinery will facilitate the gardening activities effectively. Landscape division consists of a lack of goods for the development of landscape and green environment activities and maintenance activities. (The 8th council meeting held on 30th April 2022 approved the establishment of the Landscape Division, University of Vavuniya.)

Please fill the google form once you received the payment receipt and attach the bank receipt or paying voucher receipt along with the google form link <https://forms.gle/6dwqoc3CvPWNWBtN6>.

➤ *List of Materials*

NO.	Materials /Images	Objective	Specification
01	<p data-bbox="360 342 807 398">Polybags or Nursery bags</p> 	<p data-bbox="858 495 1152 562">Propagation of plants by cutting and seeding</p>	<p data-bbox="1184 443 1422 618">All sizes (4''*5'', 4''*6'', 6''*8'', 8''*10'', 12''*12'', 12''*14'', 16''*16'', 16''*18'', 20''*24'')</p>
02	<p data-bbox="360 730 807 786">Black Polythene Sheet (Heavy)</p> 	<p data-bbox="858 882 1120 949">Maintain the polybag plants at nethouse</p>	<p data-bbox="1184 882 1414 949">Width 1 meter Length - Preferable</p>
03	<p data-bbox="360 1117 807 1173">Coir Rope</p> 	<p data-bbox="858 1245 1152 1357">Bind the support during the plantation (root ball/ layering plants)</p>	<p data-bbox="1184 1245 1414 1357">Nodes/ Bundles (Price vary with different thickness)</p>
04	<p data-bbox="360 1505 807 1561">Landscape & Gardening Books</p> 	<p data-bbox="858 1632 1152 1744">To aware, learn and apply the landscape and gardening practices</p>	<p data-bbox="1184 1666 1238 1700">Vary</p>

NO.	Materials /Images	Objective	Specification
05	<p data-bbox="363 235 820 302">Coir dust</p> 	<p data-bbox="858 315 1152 526">To use as medium for compost (contain moist) – Root ball plants, layering plants and pot plants (To specific species) medium</p>	<p data-bbox="1184 405 1295 439">Cube/ Kg</p>
06	<p data-bbox="363 620 820 687">Plastic Pots</p> 	<p data-bbox="858 790 1104 824">To indoor Plantation</p>	<p data-bbox="1184 790 1359 824">Differ with size</p>
07	<p data-bbox="363 1005 820 1072">Clay Pots (Terracotta)</p> 	<p data-bbox="858 1176 1104 1209">To indoor Plantation</p>	<p data-bbox="1184 1176 1343 1209">Different size</p>
08	<p data-bbox="363 1391 820 1458">Bonsai Pots</p> 	<p data-bbox="858 1561 1104 1594">To indoor Plantation</p>	<p data-bbox="1184 1538 1439 1617">Different shape, size, colour, texture</p>

NO.	Materials /Images	Objective	Specification
09	<p data-bbox="352 235 804 300">Stone Chips</p> 	To decorative indoor Plantation (Mainly for bonsai/ bottle garden/ miniature garden)	Kg, Vary with size and types
10	<p data-bbox="352 620 804 685">Pebbles</p> 	To decorative outdoor gardening and indoor Plantation	Kg/ Vary with size and types (Polished/ rough etc.)
11	<p data-bbox="352 1005 804 1070">Nutrients</p> 	To apply for the foliar parts of the plant to provide the nutrients (micro & macro)	Albert solution/ maxi crop (Organic liquid fertilizer)
12	<p data-bbox="352 1391 804 1456">Rooting Hormone (IBA)</p> 	To apply for the cuttings/ root ball to induce rooting	In the form of powder/ liquid/ gel

NO.	Materials /Images	Objective	Specification
13	<p data-bbox="357 241 804 309">Insecticide (Pesticides)</p> 	To apply against insects	Ex: Thiamethoxam, Fipronil, Diazinon etc.
14	<p data-bbox="357 627 804 694">Fungicide (Pesticides)</p> 	To apply against fungal attacks	Ex: Chlorothalonil, Carbendazim, Captan, Mancozeb etc.
15	<p data-bbox="357 1012 804 1079">Seeds</p> 	To propagate for the plantation and sales	Suitable for dry zone areas (Specially Vavuniya area)
16	<p data-bbox="357 1397 804 1464">Glass bottles</p> 	To apply for the bottle garden	Different shapes and sizes

➤ *List of Tools or Equipment*

NO.	Tools or Equipment /Images	Objective	Specification
01	<p data-bbox="357 353 823 450">Secateurs (Stainless steel)/ Pruning shear</p> 	<p data-bbox="855 510 1152 607">Pruning small branches, Trimming hedges, Cuttings for propagation</p>	<p data-bbox="1184 544 1359 566">Stainless steel</p>
02	<p data-bbox="357 790 823 846">Pruning saw</p> 	<p data-bbox="855 947 1110 1014">To cut and prune the tree branches</p>	<p data-bbox="1184 969 1359 992">Stainless steel</p>
03	<p data-bbox="357 1193 823 1249">Hedge shear</p> 	<p data-bbox="855 1350 1152 1417">To cut/ trim Hedge plant or topiary</p>	<p data-bbox="1184 1373 1295 1395">Standard</p>
04	<p data-bbox="357 1608 823 1664">Looping shear (Extendable)</p> 	<p data-bbox="855 1709 1126 1843">To cut/ trim overhead branches (Provide the shape/ hardening/ fruiting)</p>	<p data-bbox="1184 1765 1318 1787">Extendable</p>

NO.	Tools or Equipment /Images	Objective	Specification
05	<p data-bbox="357 235 826 302">Tree pruner (Long hand)</p>  	To cut the overhead tree branches/ tip of the trees	Extendable or not
06	<p data-bbox="357 667 826 734">Watering Can</p> 	To watering for the plant saplings	10L
07	<p data-bbox="357 1099 826 1167">Watering Hose/ Garden Hose</p> 	To watering for the plant saplings and other practices	Size - 1"/ 1 ¼" and Length - 100 Ft/ 30m
08	<p data-bbox="357 1518 826 1585">Pressure Sprayer (3L)</p> 	To spray the nutrients and pesticides (Indoor and Outdoor)	3 L

NO.	Tools or Equipment /Images	Objective	Specification
09	<p data-bbox="357 235 804 302">Garden Gloves</p> 	To provide the safety during the gardening practices	Puncture resistant gardening gloves
10	<p data-bbox="357 654 804 721">Handsaw</p> 	To cut the materials by manually	Standard
11	<p data-bbox="357 1095 804 1162">Gardening Hand Tool Set</p> 	To dig, plant, scoop, transplant and weeding	(Hand Trowel, Transplanting trowel, Hand fork/ cultivator and hand weeder)
12	<p data-bbox="357 1538 804 1606">Garden Boots/Boots (Gumboots)</p> 	To provide safety during the landscape and gardening activities	Medium size (38/40/42)

NO.	Tools or Equipment /Images	Objective	Specification
13	<p data-bbox="363 241 820 309">Raincoat</p> 	To provide the safety during the rainy season	Standard
14	<p data-bbox="363 649 820 716">Mamoty/ Hoe (9*9)</p> 	To dig, Landscape and gardening activity	9*9''
15	<p data-bbox="363 1093 820 1160">Shovel (D hand)</p> 	To load, clean Landscape and gardening activity	D hand, Standard
16	<p data-bbox="363 1536 820 1603">Long hand shovel</p> 	To dig, Landscape and gardening activity, Root balling	Standard, Hand length – 4 to 5 Ft

NO.	Tools or Equipment /Images	Objective	Specification
17	<p data-bbox="357 237 804 300">Dig bar</p> 	To dig, Landscape and gardening activity, Root balling	Height – 4 Ft/ 5 Ft
18	<p data-bbox="357 656 804 719">Iron rake</p> 	To removal of big soil particles and levelling the land for Landscape and gardening activity	Standard
19	<p data-bbox="357 1075 804 1137">Leaf rake</p> 	To removal/ sweep the leaves at lawn areas / Cleaning	Medium and large size
20	<p data-bbox="357 1514 804 1576">Steel Tamper</p> 	For the Compaction (grass paving, interlock paving etc.)	Standard

NO.	Tools or Equipment /Images	Objective	Specification
21	<p data-bbox="357 235 804 297">Dust bins</p> 	To collecting garbage/ Cleaning	Standard
22	<p data-bbox="357 654 804 716">Garden cart</p> 	To a transport the Material or tools	Suitable
23	<p data-bbox="357 1097 804 1160">Wheel barrows</p> 	To transport the garden materials	Standard
24	<p data-bbox="357 1538 804 1601">Man Pulling Cart</p> 	To transport root ball & boulders and others	Metal frame with timber plate and two tires for heavy load transport (Boulders and other)

NO.	Tools or Equipment /Images	Objective	Specification
25	<p data-bbox="363 235 810 297">Lawn Roller</p> 	To compact the soil for levelling and paving lawn	Small size
26	<p data-bbox="363 674 810 736">Pickaxe</p> 	To dig the clay soil/ hard soil	Standard
27	<p data-bbox="363 1081 810 1144">Axe</p> 	To cut the tree branches	Small and Large
28	<p data-bbox="363 1525 810 1588">Garden Fork</p> 	To dig and break the soil	4 Tine - Standard

NO.	Tools or Equipment /Images	Objective	Specification
29	<p data-bbox="360 235 810 302">Double sided step Ladder</p> 	To climb a tree or trim tree branches in height and other practices	10 Feet
30	<p data-bbox="360 654 810 721">Auger/ Clamshell Digger</p> 	To dig plant hole/ post hole	Standard
31	<p data-bbox="360 1072 810 1140">Landscape rake</p> 	To smooth out large section of soil/ achieve on accurate grade on a yard	Standard
32	<p data-bbox="360 1491 810 1559">Lawn leveler</p> 	To loosen the soil and level out bumps and divots	Standard

➤ *List of Machinery*

NO.	Machinery/ Images	Objective	Specification
01	<p data-bbox="357 353 807 416">Tractor (TAFE 45DI 4WD)</p> 	<p data-bbox="831 483 1007 618">To transport the materials with trailer and bowser</p>	<p data-bbox="1038 342 1441 757">hp range- 47, Drive-4WD, Dual clutch, PTO-Single speed (540rpm), Hydraulic Pump-Oil immersed, Lifting Capacity-1450Kg, Diff.lock-Yes, Steering-Mechanical/Hydrostatic, Front tires-10.5*18, Rear Tires-13.6*28, Brakes-MDSS/OIB, Fuel tank Capacity-47ltrs, Optional-Front weight, Rear weight, Swinging drawbar, Spool valve, ROPS</p>
02	<p data-bbox="357 786 807 848">Tractor trailer</p> 	<p data-bbox="831 916 1007 1016">To load and unload materials</p>	<p data-bbox="1038 790 1441 1140">Fully iron / No wood – Standard size for heavy duties - 6*3, 5*2 ½, 4*2 & 3*1 ½ ‘Pa’ Kedar (Steel/ bar), 6mm Frame sheet, 6mm Thula, 18 cage sheet, 2” frame cadre (1”), 1 ½ ”* ¼ ” Joint plate, 3” wheel shaft, Same reser cup (No-32211 - bearing), High load tyre (CEAT), Original jack pump, door (steel/ choice)</p>
03	<p data-bbox="357 1182 807 1245">Tractor Bowser (3000L)</p> 	<p data-bbox="831 1294 1007 1464">To watering for the plant sapling & To control bush fire</p>	<p data-bbox="1038 1261 1374 1507">Sheet cage – 4.5mm Robin water pump 6*3 Keder 6mm Thula 3” wheel shaft Same reser cup (NO-32211) High Load tyre (CEAT)</p>
04	<p data-bbox="357 1615 807 1677">Earth auger machine</p> 	<p data-bbox="831 1697 1007 1912">To dig holes for tree plantation in hard soil/ dry season or to install post</p>	<p data-bbox="1038 1664 1441 1933">Earth Auger – M3, Engine Type – 2 stroke air cooled, Displacement – 52c, Oil/ Fuel Mix Ratio – 1:25, Rated output Power – 1.58kw, Fuel Tank Capacity – 1.1 L, Drill diameter – 6” & 10”, Drill Length – 760 to 1000mm, Carton – 620*400*300mm</p>

NO.	Machinery/ Images	Objective	Specification																								
09	<p data-bbox="357 315 799 376">Brush Cutter/ Grass Cutter</p> 	<p data-bbox="831 450 1011 555">To cut the lawn and bushes</p>	<p data-bbox="1043 309 1422 658">2 stroke hot sales brush cutter BG328A, Matched Engine: 1E36F Displacement(cc): 30.5, Max.Power(kw/r/min): 0.81/6500 Cutting Width(mm):415 Blade Width(mm): 255/305/355 Net Weight(kg): 10.5 Japanese Technology;stable engine quality,with 2T blade and 80T blade and nylon head cutter for 3 cutting function</p>																								
10	<p data-bbox="357 725 799 770">Power Sprayer</p> 	<p data-bbox="831 815 1011 1025">To spray pesticides and nutrients for large trees with high pressure</p>	 <p data-bbox="1123 875 1219 913">Uses: Suitable for spraying in all crops including tea and coffee plantation, orchards etc.</p> <p data-bbox="1171 920 1315 958">Agriculture Sprayer 712 (Brass Pump)</p> <p data-bbox="1123 965 1187 981">Specifications</p> <table border="1" data-bbox="1123 981 1362 1115"> <tr> <td>Specification</td> <td>(Brass Pump, 3 Brass joint Gun 90 cm, 3 Nozzle (Short Spray))</td> </tr> <tr> <td>Chemical Tank Capacity</td> <td>20L</td> </tr> <tr> <td>Weight</td> <td>8.5kg</td> </tr> <tr> <td>Engine Type</td> <td>2-Stroke</td> </tr> <tr> <td>Rated Power/Displacement</td> <td>0.75kW (1.0hp)/25cc</td> </tr> <tr> <td>RPM/Output Pressure/ Injection Volume</td> <td>7500/2MPa/3.5MPa/7-9 (L/min)</td> </tr> <tr> <td>Fuel Tank Capacity</td> <td>600ml (Petrol)</td> </tr> <tr> <td></td> <td>Engine Wheel (2T) (3L) (L&R Petrol, Oil)</td> </tr> <tr> <td>Fuel Consumption</td> <td>Pump: 100ml (20-40 Grade)</td> </tr> <tr> <td>Liquid Output (approx.)</td> <td>500ml/hr</td> </tr> <tr> <td>Carburetor</td> <td>1800 (Pc)</td> </tr> <tr> <td>Source Assembly</td> <td>Big dirt, BIG Power source</td> </tr> </table>	Specification	(Brass Pump, 3 Brass joint Gun 90 cm, 3 Nozzle (Short Spray))	Chemical Tank Capacity	20L	Weight	8.5kg	Engine Type	2-Stroke	Rated Power/Displacement	0.75kW (1.0hp)/25cc	RPM/Output Pressure/ Injection Volume	7500/2MPa/3.5MPa/7-9 (L/min)	Fuel Tank Capacity	600ml (Petrol)		Engine Wheel (2T) (3L) (L&R Petrol, Oil)	Fuel Consumption	Pump: 100ml (20-40 Grade)	Liquid Output (approx.)	500ml/hr	Carburetor	1800 (Pc)	Source Assembly	Big dirt, BIG Power source
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Carburetor	1800 (Pc)																										
Source Assembly	Big dirt, BIG Power source																										
11	<p data-bbox="357 1173 799 1218">Backhoe loaders/ Excavator (JCB)</p> 	<p data-bbox="831 1301 1011 1406">To dig, load and transport materials</p>	 <p data-bbox="1059 1189 1426 1227">JCB 3DX 3DX-XTRA SPECIFICATION The New Fuel Efficient Backhoe Loader on Earth</p> <p data-bbox="1059 1227 1426 1473">PERFORMANCE DIMENSIONS and STATIC DIMENSIONS tables.</p>																								
12	<p data-bbox="357 1615 799 1659">Mini Road Roller Compactor</p> 	<p data-bbox="831 1704 1011 1877">To compact the soil for the paving (Lawn/ interlock/ pathways)</p>	<p data-bbox="1059 1727 1406 1845">Japan Used Road Rollers 1ton Hydraulic Roller Vibratory Baby Compactor</p>																								

NO.	Machinery/ Images	Objective	Specification
13	<p data-bbox="352 304 804 367">Mini Excavators (JCB)</p> 	To dig and load materials	
15	<p data-bbox="352 745 804 808">Chain saw</p> 	To cut the dead/ fallen/ hazardous tree branches	<p data-bbox="1037 734 1444 1126">Engine (Art no: 967 09 82-01) Chain speed at max power - 11.5 m/s, Battery voltage – 36 V, Battery type - Li-Ion Equipment Recommended bar length, min – max – 30 -35cm, Pitch – 3/8”, Chain type – H38, Weight (excl. battery and cutting equipment) – 2.95Kg (HUSQVARNA 120i)</p>
16	<p data-bbox="352 1164 804 1227">Hydraulic Trolley</p> 	To move or carry the heavy materials (Cement pot plants – indoor garden)	Load capacity: 300kg/ 500 kg, Lift height: 840mm, Lowered platform height: 335mm, Platform size: 500 x 1050mm, Single scissor mechanism, Pumps to elevate: 18, Mobile on 125mm wheels fitted with sealed bearings and polyurethane tyres, Overall weight: 83kg (SKU: SC-300-S-M)
17	<p data-bbox="352 1574 804 1637">Digital Theodolite with tripod</p> 	To facilitate the landscape activities (Drainage, Straight line for plantation, Water bodies and other hardscape construction)	<p data-bbox="1037 1574 1444 1935">Multi-functional Theodolite/300m Distance Measurement/Supportable for Long-term Working/Standard Laser Pointer /Numeric keypad display unit/2.7 inches big screen SOUTH NT-023</p>

iii. For the development of landscape and green environment infrastructure

As goodwill or remembrance, green infrastructure (Garden for blind/ Sensory Garden, Herbal garden/ Nature trail/ Interlock paving/ huts/ benches/ retaining walls/ etc.) will be established with the approved proposals.

Please fill the google form once you received the payment receipt and attach the bank receipt or paying voucher receipt along with the google form link <https://forms.gle/6dwqoc3CvPWNWBtN6>.

(Future Concern – Brief details of green infrastructure will be posted with the drawings and estimation and remembrance plaque will be installed with the remembrance of respective person/ group/ organization)



Gazebos/ Huts



Open Stage

➤ List of Structures or Features

NO.	Structures or Features/ Images	Location	Remarks
01	<p style="text-align: center;">Arbors</p> 	Entrance and exit points of outdoor walkways, entrance of gardens or portions	Metal/ Wooden/ Concrete

NO.	Structures or Features/ Images	Location	Remarks
02	<p data-bbox="352 320 802 383">Gazebos/ Huts</p> 	Every area – under or near the trees or open areas	Sitting or gathering place for students and staff (Study/Relaxation/ Celebration etc.)
03	<p data-bbox="352 730 802 792">Paths</p> 	Connection between main roads, gardens and buildings or other accessible features	Different materials – Concrete, slabs, Flag stone, Bricks, Chips, Lawn etc.
04	<p data-bbox="352 1151 802 1214">Trellis</p> 	Facilitate the vertical garden – buildings front view, garden areas	Different materials – Wooden/ Rods frame
05	<p data-bbox="352 1559 802 1621">Walls/ Edges</p> 	Boundary/ Barrier/ Border	Different Materials – Retain wall, brick, Vegetation, wooden etc.

NO.	Structures or Features/ Images	Location	Remarks
06	<p data-bbox="352 315 799 383">Patios</p> 	Sitting areas/ Garden areas/ Recreation areas	Different materials – Concrete, Lawn, brick etc.
07	<p data-bbox="352 725 799 792">Decks</p> 	Garden areas/ Recreation areas	Different materials – WPC (Wooden plastic composite), Wooden etc.
08	<p data-bbox="352 1144 799 1211">Entry Gates</p> 	Garden entrances, Pathway entrances	Different materials – Wooden/ metal/ Plastic/ fiber etc.
09	<p data-bbox="352 1574 799 1641">Screens</p> 	Washroom areas, Garden areas	With vegetation/ hard materials or combination in different level of height (Knee level, hip level, eye level, etc.)

NO.	Structures or Features/ Images	Location	Remarks
10	<p data-bbox="352 315 799 376">Water features 1</p> 	auditorium	river wall
11	<p data-bbox="352 730 799 790">Statues/ Sculptures</p> 	In front of Admin block, Auditorium and Library	Aesthetic view (Small and big)
12	<p data-bbox="352 1122 799 1182">Photo Booth</p> 	Near the proposed gardens	To create background for the celebration or events
13	<p data-bbox="352 1536 799 1597">Raised Beds</p> 	Herbal Garden, Garden For blind, building front areas/ sitting areas	Aesthetic view (Concrete/ brick/ wooden edges)

14	<p style="text-align: center;">Water Bodies 2</p> 	Garden areas	Aesthetic view, eco- friendly environment
15	<p style="text-align: center;">Open Stage</p> 	ITC Front area and other areas	design
16	<p style="text-align: center;">Waterbodies 3</p> 	In front of Library and admin	Fountain
17	<p style="text-align: center;">Gates & fences</p> 	Garden areas	Natural/ artificial/ combination

➤ *List of Specific Projects*

NO.	Specific Projects	Objective & Location	Remarks
01	<p style="text-align: center;">Garden for Blind</p> 	<p>To encourage the community to sense the taste, sound, touch & smell (Specially for disable people)</p>	<p>30* 30 Sqm area</p>
02	<p style="text-align: center;">Herbal Garden</p> 	<p>aware of herbal plants and create the different recreational areas - FBS</p>	<p>30* 25 Sqm area</p>
03	<p style="text-align: center;">Nature Trail</p> 	<p>Facilitate the natural pathway for access - At forest patch (20Ac)</p>	<p>Maintain nature trail for safety and access with natural additional features – Boulders and timbers for relaxation</p>
04	<p style="text-align: center;">Cacti & Succulent Plant House</p> 	<p>To attract the students, staff and community and propagation and maintenance of cacti and succulent plant for sale - Dry zone area</p>	<p>Polytunnel</p>

NO.	Specific Projects	Objective	Remarks
05	<p data-bbox="363 271 810 331">Iconic hard landscape features</p> 	<p data-bbox="842 353 1182 539">Aesthetic view (Auditorium, Administration block, Library, Main roundabout)</p>	<p data-bbox="1209 398 1465 510">Big, attractive architect design, reflection, unique</p>
06	<p data-bbox="363 712 810 772">Plant sale center</p> 	<p data-bbox="842 795 1182 981">To generate income for the gardening maintenance and engage with community - Net house area</p>	<p data-bbox="1209 853 1401 920">Shrubs, Trees, Vines etc.</p>
07	<p data-bbox="363 1137 810 1198">Recreation Areas</p> 	<p data-bbox="842 1294 1182 1368">To engage the students and staff</p>	<p data-bbox="1209 1317 1369 1346">Sustainable</p>
08	<p data-bbox="363 1592 810 1653">Photo Booth</p> 	<p data-bbox="842 1742 1182 1816">To create background for the celebration or events</p>	<p data-bbox="1209 1765 1321 1794">Natural</p>

b. Donation of Goods (Materials/ Tools/ Equipment/ Machinery)

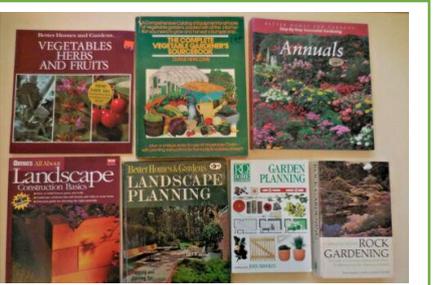
The person or organization who is willing to donate the goods directly to the university as goodwill or remembrance, they can provide the goods to landscape division by the hands of the vice-chancellor.

- a. **Materials** - Compost, Fertilizers, Pots, Polybags, Polythene sheets, etc.
- b. **Tools/ Equipment** - Secateurs, Hedge shear, lopping shear, Pruning saw, Shovel, Wheelbarrow, garden roller, etc.
- c. **Machineries** - Brush cutter, Power sprayer, Electric hedge trimmer, electric mower, earth auger machine, Mini compactor, Loader (Bobcat), Tractor and trailer, bowser etc.

Handover photography will be uploaded (with the willingness of the respective person) in the university social media (Facebook) and will be tagged to the respective person's social media.

➤ *List of Materials*

NO.	Materials /Images	Objective	Specification
01	<p>Polybags or Nursery bags /</p> 	Propagation of plants by cutting and seeding	All sizes (4''*5'', 4''*6'', 6''*8'', 8''*10'', 12''*12, 12''*14'', 16''*16'', 16''*18'', 20''*24'')
02	<p>Black Polythene Sheet (Heavy)</p> 	Maintain the polybag plants at nethouse	Width 1 meter Length - Preferable

NO.	Materials /Images	Objective	Specification
03	<p data-bbox="379 293 823 353">Coir Rope</p> 	<p data-bbox="858 427 1153 533">Bind the support during the plantation (root ball/ layering plants)</p>	<p data-bbox="1182 427 1422 533">Nodes/ Bundles (Price vary with different thickness)</p>
04	<p data-bbox="379 678 823 739">Landscape & Gardening Books</p> 	<p data-bbox="858 813 1153 918">To aware, learn and apply the landscape and gardening practices</p>	<p data-bbox="1182 846 1241 880">Vary</p>
05	<p data-bbox="379 1061 823 1122">Coir dust</p> 	<p data-bbox="858 1144 1153 1352">To use as medium for compost (contain moist) – Root ball plants, layering plants and pot plants (To specific species) medium</p>	<p data-bbox="1182 1234 1294 1267">Cube/ Kg</p>
06	<p data-bbox="379 1444 823 1505">Plastic Pots</p> 	<p data-bbox="858 1619 1106 1653">To indoor Plantation</p>	<p data-bbox="1182 1619 1366 1653">Differ with size</p>

NO.	Materials /Images	Objective	Specification
07	<p data-bbox="357 293 804 353">Clay Pots (Terracotta)</p> 	To indoor Plantation	Different size
08	<p data-bbox="357 678 804 739">Bonsai Pots</p> 	To indoor Plantation	Different shape, size, colour, texture
09	<p data-bbox="357 1061 804 1122">Stone Chips</p> 	To decorative indoor Plantation (Mainly for bonsai/ bottle garden/ miniature garden)	Kg, Vary with size and types
10	<p data-bbox="357 1447 804 1507">Pebbles</p> 	To decorative outdoor gardening and indoor Plantation	Kg/ Vary with size and types (Polished/ rough etc.)

NO.	Materials /Images	Objective	Specification
11	<p data-bbox="352 300 804 365" style="text-align: center;">Nutrients</p> 	<p data-bbox="858 412 1150 551">To apply for the foliar parts of the plant to provide the nutrients (micro & macro)</p>	<p data-bbox="1182 434 1406 528">Albert solution/ maxicrop (Organic liquid fertilizer)</p>
12	<p data-bbox="352 685 804 750" style="text-align: center;">Rooting Hormone (IBA)</p> 	<p data-bbox="858 815 1110 909">To apply for the cuttings/ root ball to induce rooting</p>	<p data-bbox="1182 837 1414 898">In the form of powder/ liquid/ gel</p>
13	<p data-bbox="352 1068 804 1133" style="text-align: center;">Insecticide (Pesticides)</p> 	<p data-bbox="858 1240 1150 1267">To apply against insects</p>	<p data-bbox="1182 1218 1445 1279">Ex: Thiamethoxam, Fipronil, Diazinon etc.</p>
14	<p data-bbox="352 1451 804 1516" style="text-align: center;">Fungicide (Pesticides)</p> 	<p data-bbox="858 1599 1142 1659">To apply against fungal attacks</p>	<p data-bbox="1182 1570 1406 1693">Ex: Chlorothalonil, Carbendazim, Captan, Mancozeb etc.</p>

NO.	Materials /Images	Objective	Specification
15	<p style="text-align: center;">Seeds</p> 	To propagate for the plantation and sales	Suitable for dry zone areas (Specially Vavuniya area)
16	<p style="text-align: center;">Glass bottles</p> 	To apply for the bottle garden	Different shape and sizes
17	<p style="text-align: center;">Barrels</p> 	To plant and maintain the root ball and layering plants (medium or big)	Plastic/ Metal
18	<p style="text-align: center;">Plant saplings</p> 	To collect the rare or new species (Suitable)	Preferred size

➤ *List of Tools or Equipment*

NO.	Tools or Equipment /Images	Objective	Specification
01	<p data-bbox="357 353 823 454">Secateurs (Stainless steel)/ Pruning shear</p> 	<p data-bbox="855 510 1152 611">Pruning small branches, Trimming hedges, Cuttings for propagation</p>	<p data-bbox="1184 544 1359 577">Stainless steel</p>
02	<p data-bbox="357 790 823 846">Pruning saw</p> 	<p data-bbox="855 947 1152 1014">To cut and prune the tree branches</p>	<p data-bbox="1184 969 1359 1003">Stainless steel</p>
03	<p data-bbox="357 1193 823 1249">Hedge shear</p> 	<p data-bbox="855 1350 1152 1417">To cut/ trim Hedge plant or topiary</p>	<p data-bbox="1184 1373 1295 1406">Standard</p>
04	<p data-bbox="357 1608 823 1664">Looping shear (Extendable)</p> 	<p data-bbox="855 1709 1152 1843">To cut/ trim overhead branches (Provide the shape/ hardening/ fruiting)</p>	<p data-bbox="1184 1765 1327 1798">Extendable</p>

NO.	Tools or Equipment /Images	Objective	Specification
05	<p data-bbox="357 235 823 302">Tree pruner (Long hand)</p>  	To cut the overhead tree branches/ tip of the trees	Extendable or not
06	<p data-bbox="357 667 823 734">Watering Can</p> 	To watering for the plant saplings	10L
07	<p data-bbox="357 1099 823 1167">Watering Hose/ Garden Hose</p> 	To watering for the plant saplings and other practices	Size - 1"/ 1 ¼" and Length - 100 Ft/ 30m
08	<p data-bbox="357 1518 823 1585">Pressure Sprayer (3L)</p> 	To spray the nutrients and pesticides (Indoor and Outdoor)	3 L

NO.	Tools or Equipment /Images	Objective	Specification
09	<p data-bbox="357 235 804 302">Garden Gloves</p> 	To provide the safety during the gardening practices	Puncture resistant gardening gloves
10	<p data-bbox="357 654 804 721">Handsaw</p> 	To cut the materials by manually	Standard
11	<p data-bbox="357 1095 804 1162">Gardening Hand Tool Set</p> 	To dig, plant, scoop, transplant and weeding	(Hand Trowel, Transplanting trowel, Hand fork/ cultivator and hand weeder)
12	<p data-bbox="357 1538 804 1606">Garden Boots/Boots (Gumboots)</p> 	To provide safety during the landscape and gardening activities	Medium size (38/40/42)

NO.	Tools or Equipment /Images	Objective	Specification
13	<p data-bbox="360 241 810 309">Raincoat</p> 	To provide the safety during the rainy season	Standard
14	<p data-bbox="360 651 810 719">Mamoty/ Hoe (9*9)</p> 	To dig, Landscape and gardening activity	9*9"
15	<p data-bbox="360 1095 810 1162">Shovel (D hand)</p> 	To load, clean Landscape and gardening activity	D hand, Standard
16	<p data-bbox="360 1538 810 1606">Long hand shovel</p> 	To dig, Landscape and gardening activity, Root balling	Standard, Hand length – 4 to 5 Ft

NO.	Tools or Equipment /Images	Objective	Specification
17	<p data-bbox="357 237 804 300">Dig bar</p> 	To dig, Landscape and gardening activity, Root balling	Height – 4 Ft/ 5 Ft
18	<p data-bbox="357 656 804 719">Iron rake</p> 	To removal of big soil particles and levelling the land for Landscape and gardening activity	Standard
19	<p data-bbox="357 1075 804 1137">Leaf rake</p> 	To removal/ sweep the leaves at lawn areas / Cleaning	Medium and large size
20	<p data-bbox="357 1514 804 1576">Steel Tamper</p> 	For the Compaction (grass paving, interlock paving etc.)	Standard

NO.	Tools or Equipment /Images	Objective	Specification
21	<p data-bbox="357 235 804 297">Dust bins</p> 	To collecting garbage/ Cleaning	Standard
22	<p data-bbox="357 654 804 716">Garden cart</p> 	To a transport the Material or tools	Suitable
23	<p data-bbox="357 1097 804 1160">Wheel barrows</p> 	To transport the garden materials	Standard
24	<p data-bbox="357 1538 804 1601">Man Pulling Cart</p> 	To transport root ball & boulders and others	Metal frame with timber plate and two tires for heavy load transport (Boulders and other)

NO.	Tools or Equipment /Images	Objective	Specification
25	<p data-bbox="363 235 810 297">Lawn Roller</p> 	To compact the soil for levelling and paving lawn	Small size
26	<p data-bbox="363 667 810 730">Pickaxe</p> 	To dig the clay soil/ hard soil	Standard
27	<p data-bbox="363 1075 810 1137">Axe</p> 	To cut the tree branches	Small and Large
28	<p data-bbox="363 1514 810 1576">Garden Fork</p> 	To dig and break the soil	4 Tine - Standard

NO.	Tools or Equipment /Images	Objective	Specification
29	<p data-bbox="360 232 807 300">Double sided step Ladder</p> 	To climb a tree or trim tree branches in height and other practices	10 Feet
30	<p data-bbox="360 651 807 719">Auger/ Clamshell Digger</p> 	To dig plant hole/ post hole	Standard
31	<p data-bbox="360 1070 807 1137">Landscape rake</p> 	To smooth out large section of soil/ achieve on accurate grade on a yard	Standard
32	<p data-bbox="360 1489 807 1556">Lawn leveller</p> 	To loosen the soil and level out bumps and divots	Standard

➤ *List of Machinery*

NO.	Machinery/ Images	Objective	Specification
01	<p data-bbox="357 353 804 421">Tractor (TAFE 45DI 4WD)</p> 	<p data-bbox="836 488 1010 622">To transport the materials with trailer and bowser</p>	<p data-bbox="1042 342 1441 757">hp range- 47, Drive-4WD, Dual clutch, PTO-Single speed (540rpm), Hydraulic Pump-Oil immersed, Lifting Capacity-1450Kg, Diff.lock-Yes, Steering-Mechanical/Hydrostatic, Front tires-10.5*18, Rear Tires-13.6*28, Brakes-MDSS/OIB, Fuel tank Capacity-47ltrs, Optional-Front weight, Rear weight, Swinging drawbar, Spool valve, ROPS</p>
02	<p data-bbox="357 786 804 842">Tractor trailer</p> 	<p data-bbox="836 909 978 1010">To load and unload materials</p>	<p data-bbox="1042 786 1441 1133">Fully iron / No wood – Standard size for heavy duties - 6*3, 5*2 ½, 4*2 & 3*1 ½ ‘Pa’ Kedar (Steel/ bar), 6mm Frame sheet, 6mm Thula, 18 cage sheet, 2” frame cadre (1”), 1 ½ ”* ¼ ” Joint plate, 3” wheel shaft, Same reser cup (No-32211 - bearing), High load tyre (CEAT), Original jack pump, door (steel/ choice)</p>
03	<p data-bbox="357 1171 804 1227">Tractor Bowser (3000L)</p> 	<p data-bbox="836 1261 1010 1429">To watering for the plant sapling & To control bush fire</p>	<p data-bbox="1042 1216 1377 1485">(3000L Bowser with motor) Sheet cage – 4.5mm Robin water pump 6*3 Keder 6mm Thula 3” wheel shaft Same reser cup (NO-32211) High Load tyre (CEAT)</p>
04	<p data-bbox="357 1565 804 1621">Earth auger machine</p> 	<p data-bbox="836 1644 1010 1856">To dig holes for tree plantation in hard soil/ dry season or to install post</p>	<p data-bbox="1042 1621 1441 1890">Earth Auger – M3, Engine Type – 2 stroke air cooled, Displacement – 52c, Oil/ Fuel Mix Ratio – 1:25, Rated output Power – 1.58kw, Fuel Tank Capacity – 1.1 L, Drill diameter – 6” & 10”, Drill Length – 760 to 1000mm, Carton – 620*400*300mm</p>
NO.	Machinery/ Images	Objective	Specification

09	<p style="text-align: center;">Brush Cutter/ Grass Cutter</p> 	To cut the lawn and bushes	<p>2 stroke hot sales brush cutter BG328A, Matched Engine: 1E36F Displacement(cc): 30.5, Max.Power(kw/r/min): 0.81/6500 Cutting Width(mm):415 Blade Width(mm): 255/305/355 Net Weight(kg): 10.5 Japanese Technology;stable engine quality,with 2T blade and 80T blade and nylon head cutter for 3 cutting function (DIMO – Ditec)</p>																																																																																																																																																																																																																																																																																																																																																																																																																								
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11	<p style="text-align: center;">Backhoe loaders/ Excavator (JCB)</p> 	To dig, load and transport materials	 <p>JCB 3DX 13DX XTRA SPECIFICATION The Most Fuel Efficient Backhoe Loader on Earth</p> <p>PERFORMANCE DIMENSIONS</p> <table border="1"> <tr> <th>Model</th> <th>3DX</th> <th>13DX</th> <th>13DX XTRA</th> </tr> <tr> <td>1. Max. Digging Force</td> <td>11000</td> <td>13000</td> <td>13000</td> </tr> <tr> <td>2. Max. Digging Depth</td> <td>3.70</td> <td>3.70</td> <td>3.70</td> </tr> <tr> <td>3. Max. Digging Speed</td> <td>1.20</td> <td>1.20</td> <td>1.20</td> </tr> <tr> <td>4. Max. Digging Time</td> <td>1.10</td> <td>1.10</td> <td>1.10</td> </tr> <tr> <td>5. Max. Digging Angle</td> <td>110</td> <td>110</td> <td>110</td> </tr> <tr> <td>6. Max. Digging Height</td> <td>1.10</td> <td>1.10</td> <td>1.10</td> </tr> <tr> <td>7. Max. Digging Width</td> <td>1.10</td> <td>1.10</td> <td>1.10</td> </tr> <tr> <td>8. Max. 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Digging Angle	110	110	110	16. Max. Digging Height	1.10	1.10	1.10	17. Max. Digging Width	1.10	1.10	1.10	18. Max. Digging Length	1.10	1.10	1.10	19. Max. Digging Depth	1.10	1.10	1.10	20. Max. Digging Angle	110	110	110	21. Max. Digging Height	1.10	1.10	1.10	22. Max. Digging Width	1.10	1.10	1.10	23. Max. Digging Length	1.10	1.10	1.10	24. Max. Digging Depth	1.10	1.10	1.10	25. Max. Digging Angle	110	110	110	26. Max. Digging Height	1.10	1.10	1.10	27. Max. Digging Width	1.10	1.10	1.10	28. Max. Digging Length	1.10	1.10	1.10	29. Max. Digging Depth	1.10	1.10	1.10	30. Max. Digging Angle	110	110	110	31. Max. Digging Height	1.10	1.10	1.10	32. Max. Digging Width	1.10	1.10	1.10	33. Max. Digging Length	1.10	1.10	1.10	34. Max. Digging Depth	1.10	1.10	1.10	35. Max. Digging Angle	110	110	110	36. Max. Digging Height	1.10	1.10	1.10	37. Max. Digging Width	1.10	1.10	1.10	38. Max. Digging Length	1.10	1.10	1.10	39. Max. Digging Depth	1.10	1.10	1.10	40. Max. Digging Angle	110	110	110	41. Max. 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Overall Circumference	1.10	1.10	1.10	46. Overall Surface Area	1.10	1.10	1.10	47. Overall Volume	1.10	1.10	1.10	48. Overall Area	1.10	1.10	1.10	49. Overall Perimeter	1.10	1.10	1.10	50. Overall Circumference	1.10	1.10	1.10
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12	<p style="text-align: center;">Mini Road Roller Compactor</p> 	To compact the soil for the paving (Lawn/ interlock/ pathways)	<p>Japan Used Road Rollers 1ton Hydraulic Roller Vibratory Baby Compactor</p>																																																																																																																																																																																																																																																																																																																																																																																																																								

NO.	Machinery/ Images	Objective	Specification
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<p>13</p>	<p>Mini Excavators (JCB)</p> 	<p>To dig and load materials</p>	
<p>14</p>	<p>Hydraulic Trolley</p> 	<p>To move or carry the heavy materials (Cement pot plants – indoor garden)</p>	<p>Load capacity: 300kg/ 500 kg, Lift height: 840mm, Lowered platform height: 335mm, Platform size: 500 x 1050mm, Single scissor mechanism, Pumps to elevate: 18, Mobile on 125mm wheels fitted with sealed bearings and polyurethane tyres, Overall weight: 83kg (SKU: SC-300-S-M)</p>
<p>15</p>	<p>Chain saw</p> 	<p>To cut the dead/ fallen/ hazardous tree branches</p>	<p>Engine (Art no: 967 09 82-01) Chain speed at max power - 11.5 m/s, Battery voltage – 36 V, Battery type - Li-Ion Equipment Recommended bar length, min – max – 30 -35cm, Pitch – 3/8”, Chain type – H38, Weight (excl. battery and cutting equipment) – 2.95Kg (HUSQVARNA 120i)</p>
<p>16</p>	<p>Digital Theodolite with tripod</p> 	<p>To facilitate the landscape activities (Drainage, Straight line for plantation, Water bodies and other hardscape construction)</p>	<p>Multi-functional Theodolite/300m Distance Measurement/Supportable for Long-term Working/Standard Laser Pointer /Numeric keypad display unit/2.7 inches big screen SOUTH NT-023</p>

A stylized illustration of a green tree with a thick brown trunk and a full canopy of green leaves, situated on a grassy hill. The foreground is filled with tall, green grass blades. The background is a plain white color.

Thank You