

ASERS

Journal of Environmental Management and Tourism

Quarterly

Volume X

Issue 1(33)

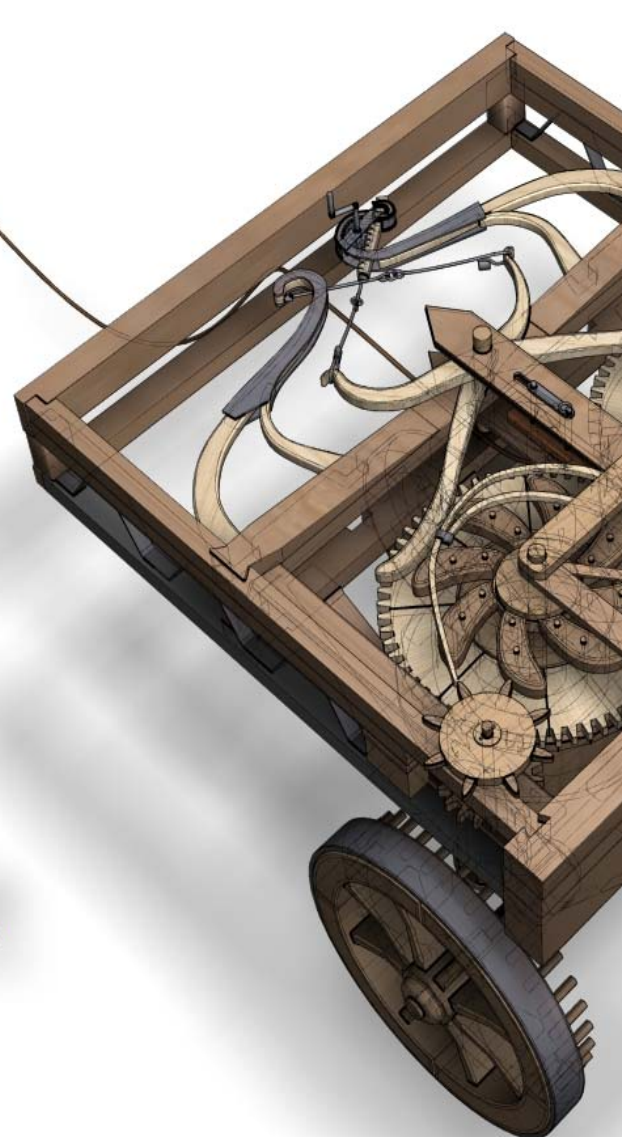
Spring 2019

ISSN 2068 – 7729

Journal DOI

<http://dx.doi.org/10.14505/jemt>

 **ASERS**
Publishing



Editor in Chief

Ramona PÎRVU

University of Craiova, Romania

Editorial Advisory Board

Omran Abdelnaser

University Sains Malaysia, Malaysia

Huong Ha

University of Newcastle, Singapore,
Australia

Harjeet Kaur

HELP University College, Malaysia

Janusz Grabara

Czestochowa University of Technology,
Poland

Vicky Katsoni

Technological Educational Institute of
Athens, Greece

Sebastian Kot

Czestochowa University of Technology,
The Institute of Logistics and International
Management, Poland

Nodar Lekishvili

Tbilisi State University, Georgia

Andreea Marin-Pantelescu

Academy of Economic Studies Bucharest,
Romania

Piotr Misztal

The Jan Kochanowski University in
Kielce, Faculty of Management and
Administration, Poland

Agnieszka Mrozik

Faculty of Biology and Environmental
protection, University of Silesia, Katowice,
Poland

Chuen-Chee Pek

Nottingham University Business School,
Malaysia

Roberta De Santis

LUISS University, Italy

Fabio Gaetano Santeramo

University of Foggia, Italy

Dan Seligteanu

University of Craiova, Romania

Laura Ungureanu

Spiru Haret University, Romania

ASERS Publishing

<http://www.asers.eu/asers-publishing>

ISSN 2068 – 7729

Journal DOI: <http://dx.doi.org/10.14505/jemt>

Table of Contents:

1	Pro-Environmental Behavior of Consumers Ganimete PODVORICA, Fatos UKAJ	5
2	Revisiting Legal Understanding of Wild Life as a Sustainable Value. The Case of Ukraine Svitlana I. ZAPARA, Hanna A. FOTINA, Alyona M. KLOCHKO, Tetiana I. FOTINA, Ivan V. YATSENKO	14
3	Environmental Safety of Modern Kazakhstan: General Legal Analysis Aliya S. KOSHKINBAEVA, Sholpan R. ZHUMAGULOVA, Aigul Z. ZHANALIYEVA, Aigul R. BIZHANOVA, Sholpan S. KHAMZINA	22
4	Improving the Innovation of Appropriate Technology in the Home Industry of Pemindangan in Coastal Communities of Tambaksari Village Oktaviani Adhi SUCIPTANINGSIH, Suchatiningsih Dian Wisika PRAJANTI, Dewi Liesnoor SETYOWATI, Agustinus Sugeng PRIYANTO, Yoris Adi MARETTA	32
5	Cultural Mapping- A Developmental Tool for Enhancing the Destination's Image. Case Study of Cuttack Shruti MOHANTY, Sitikantha MISHRA, Sasmita MOHANTY	39
6	The Role of Responsibility Feeling in Mediating the Effects of the Environmental Education Course, Socio-Economic Conditions, and Awareness as the Caliph on Environmental Behavior Ratieh WIDHIASTUTI, Rediana SETIYANI, KARDIYEM, Wisudani RAHMANINGTYAS	53
7	The Costs of Reduction Emission from Deforestation and Forest Degradation. Concepts and Issues Tri WALUYO, Kumba DIGDOWISEISO, El Amry Bermawi PUTERA, Eko SUGIYANTO	63
8	University Spin-Off: A Literary Review for Their Application in Colombia Andrés José CASTRILLÓN MUÑOZ, Alfonso Infante MORO, Alexander Zúñiga COLLAZOS, Francisco José Martínez LÓPEZ	73
9	Formation of Agrarian Production Infrastructure in the Areas Inhabited by Indigenous Small-Numbered Peoples of the North. Case Study of Krasnoyarsk Denis Victorovich PARSHUKOV, Victor Nikolayevich NEVZOROV, Marina Anatolevna YANOVA, Elena Nikolayevna OLEJNIKOVA, Igor Victorovich MATSKEVICH	87
10	Environmental Effects Evaluation of Innovative Renewable Energy Projects Anastasia A. SALNIKOVA, Andrej S. SLAVJANOV, Evgenii Yu. KHRUSTALEV, Oleg E. KHRUSTALEV	100
11	Diversity of Species and Benefits of Telajakan Plant as a Potential Tourism Attraction in Bali Anak Agung Ketut DARMADI, Ni Nyoman WIRASITI, I Ketut GINANTRA	109
12	Modeling in the Management of Economic Growth of the Agriculture in Russia Marina Y. ANOKHINA, Alexey V. GOLUBEV, Olga N. KONDRASHINA	119

Editor in Chief

Ramona PÎRVU

University of Craiova, Romania

Editorial Advisory Board

Omran Abdelnaser

University Sains Malaysia, Malaysia

Huong Ha

University of Newcastle, Singapore,
Australia

Harjeet Kaur

HELP University College, Malaysia

Janusz Grabara

Czestochowa University of Technology,
Poland

Vicky Katsoni

Techonological Educational Institute of
Athens, Greece

Sebastian Kot

Czestochowa University of Technology,
The Institute of Logistics and International
Management, Poland

Nodar Lekishvili

Tbilisi State University, Georgia

Andreea Marin-Pantelescu

Academy of Economic Studies Bucharest,
Romania

Piotr Misztal

The Jan Kochanowski University in
Kielce, Faculty of Management and
Administration, Poland

Agnieszka Mrozik

Faculty of Biology and Environmental
protection, University of Silesia, Katowice,
Poland

Chuen-Chee Pek

Nottingham University Business School,
Malaysia

Roberta De Santis

LUISS University, Italy

Fabio Gaetano Santeramo

University of Foggia, Italy

Dan Selişteanu

University of Craiova, Romania

Laura Ungureanu

Spiru Haret University, Romania

ASERS Publishing

<http://www.asers.eu/asers-publishing>

ISSN 2068 – 7729

Journal DOI: <http://dx.doi.org/10.14505/jemt>

13	Concept of Planning Development of Coastal Resort Settlements under Conditions of Complex Relief Alexandr Ivanovich FINOGENOV, Aleksey Vladimirovich POPOV	135
14	Implications for Provenance since the Last Glaciations in Southeastern Andaman Sea Sediments by Clay Mineralogy Suratta BUNSOMBOONSAKUL, Penjai SOMPONGCHAIYAKUL, Zhifei LIU, Akkaneewut CHABANGBORN, Anond SNIDVONGS	140
15	Economic and Environmental Benefits of Using Waste Potential as a Valuable Secondary and Energy Resource Sergiy BEREZYUK, Dina TOKARCHUK, Natalia PRYSHLIAK	149
16	The Impact of Agricultural Environmental Pollutions on the Population's Quality of Life. The Experience of Kazakhstan Bagila MUSTAFAYEVA, Saule KALTAYEVA, Ainura SAPAROVA, Elvira ALIMKULOVA, Meruert KULBAYEVA	161
17	Investigating the Effect of Service Quality, Mental Image, Trust and Environment Brand on Emotional Satisfaction and Commitment Yousef Mirzaei SHIRI, Vahideh ALIPOOR, Hossein AZIMI	171
18	Linking Ownership Concentration to Firm Value: Mediation Role of Environmental Performance Mohamad Nur UTOMO, Sugeng WAHYUDI, Harjum MUHARAM, Monica Rahardian Ary HELMINA	182
19	Information Support of Monitoring As a Tool of Ecological Optimization of Agricultural Land Use Tatiana Ivanovna BAKINOVA, Natalia Evgenievna DARBAKOVA, Gerenzel Yashkulovna KAZAKOVA, Saglara Alexandrovna SANGADZHIEVA, Irina Evgenievna DARBAKOVA	195
20	Logistics System of Waste Management at the Mining Enterprises Lyudmila MOCHALOVA, Olga SOKOLOVA, Vera YURAK	202
21	Spatio-Temporal Zoning of the Urban Lands' Functioning for Ensuring the Sustainable Development of the City Yuri Mikhailovich ROGATNEV, Valentina Nikolaevna SCHERBA, Olga Sergeevna NAZAROVA, Tatyana Anatolevna FILIPPOVA, Olga Nikolaevna DOLMATOVA	210
22	The Impact of Eco-Friendly Behaviors on Life Satisfaction Orose LEELAKULTHANIT	220
23	Sustainability-Oriented Innovation and Performance of Small and Medium Enterprises in South Africa Olawale FATOKI	231
24	Recommendation for the Use of Regional Tourist Resources by the Example of the Resort City of Sochi, Russia Valentina KATAEVA, Tatiana FOMICHEVA, Julia SULYAGINA, Julia KUVSHINOVA, Tatiana EVSTRATOVA, Gennady MOSKVITIN	243
25	Identification, Assessment and Raking of Geomorphosites: A Guide to Sustainable Tourism Development. Case Study of Khorramabad County in Iran Mehran MAGHSOUDI, Hedieh DEHESTANI, Mehdi BAHARVAND, Zahra HAJIKARIMI	252
26	The Determinant Factors of Foreign Tourists' Visit to Tourism Destination in North Sumatra Maria Magdalena BATE'E, Syah Abadi MENDROFA, Yamolala ZEGA, Syukur Kasieli HULU, LELYSO, Emmanuel ZEBUA	266

Call for Papers Summer Issues 2019 Journal of Environmental Management and Tourism

Journal of Environmental Management and Tourism is an interdisciplinary research journal, aimed to publish articles and original research papers that should contribute to the development of both experimental and theoretical nature in the field of Environmental Management and Tourism Sciences.

Journal will publish original research and seeks to cover a wide range of topics regarding environmental management and engineering, environmental management and health, environmental chemistry, environmental protection technologies (water, air, soil), pollution reduction at source and waste minimization, energy and environment, modeling, simulation and optimization for environmental protection; environmental biotechnology, environmental education and sustainable development, environmental strategies and policies, etc. This topic may include the fields indicated above, but are not limited to these.

Authors are encouraged to submit high quality, original works that discuss the latest developments in environmental management research and application with the certain scope to share experiences and research findings and to stimulate more ideas and useful insights regarding current best-practices and future directions in environmental management.

Journal of Environmental Management and Tourism is indexed in SCOPUS, RePEC, CEEOL, ProQuest, EBSCO and Cabell Directory databases.

All the papers will be first considered by the Editors for general relevance, originality and significance. If accepted for review, papers will then be subject to double blind peer review.

Deadline for submission:	26 th May 2019
Expected publication date:	June 2019
Website:	https://journals.aserspublishing.eu/jemt
E-mail:	jemt@aserspublishing.eu

To prepare your paper for submission, please see full author guidelines in the following file: [JEMT_Full_Paper_Template.docx](#), then send it via email at jemt@aserspublishing.eu.



DOI : [http://dx.doi.org/10.14505/jemt.v10.1\(33\).11](http://dx.doi.org/10.14505/jemt.v10.1(33).11)

Diversity of Species and Benefits of Telajakan Plant as a Potential Tourism Attraction in Bali

Anak Agung Ketut DARMADI

Biology Study Program, Faculty of Mathematics and Natural Sciences,
Udayana University, Indonesia
darmadi@unud.ac.id

Ni Nyoman WIRASITI

Biology Study Program, Faculty of Mathematics and Natural Sciences,
Udayana University, Indonesia
wirasiti19@gmail.com

I Ketut GINANTRA

Biology Study Program, Faculty of Mathematics and Natural Sciences,
Udayana University, Indonesia
ketutqi@yahoo.com

Suggested Citation:

Darmadi, A.A.K., Wirasiti, N.N., Ginantra, I. K. (2019). Diversity of Species and Benefits of Telajakan Plant as a Potential Tourism Attraction in Bali. *Journal of Environmental Management and Tourism*, (Volume X, Spring), 1(33): 109-120. DOI:10.14505/jemt.v10.1(33).11

Article's History:

Received January 2019; Revised February 2019; Accepted February 2019.
2019. ASERS Publishing©. All rights reserved.

Abstract

Telajakan is a place of reforestation, one of the elements of traditional green open space in Balinese homes. Plants planted in various species are diversified, in some categories of plant and have various benefits in Balinese society. The study was conducted in 2018 in the Cengkilung village, Denpasar Municipality and Penglipuran Village, Bangli Regency, Bali Province. Data collection methods are carried out through observation with inventory and identification of plants, interviews with owners of taxation. The plants planted in these two villages are mostly used for beauty or ornamental plants increase the family's economy, ceremonies or rituals, and protectors. The highest Important Value (IV) on trees category in Telajakan plants at the Cengkilung village are the cabbage tree (*Cordia allamanda*) as much as namely 129%. The shrub and herbaceous categories are Crotons 'Wide leaf' (*Codiae variegatum*) and Japanese grass (*Zoysia japonica*) amounting respectively 75.3% and 43.4%. The Telajakan plants at Penglipuran Village, which are on the category of trees, shrubs and herbs with the highest important values are the Cananga tree (*Cananga odorata*), Dwarf umbrella tree (*Schefflera grandiflora*), and spider plant (*Chlorophytum comosum*) 109%, 33.4% and 64.6%.

Keywords: identification; plant species; usability; telajakan; ecotourism.

JeIClassification: Q23; L83.

Introduction

The Plant species planted in the yard of the house consist of various species, with various categories of growth and have many benefits. The yard according to some researchers divides into local culture, utilization or ethno-cultural studies. A study of community relations with the plant environment. The plant species that are planted in field are several of plants with various benefits. Rahayu and Prawiroatmodjo (2005) reported that there were 40 species of plants planted in home yards in Lampeapi Village, Wawoni Island, Southeast Sulawesi-Indonesia. Species of forty plants are namely 5 species of commodities that affect family income. Also known there are species that are planted as medicinal plants and aesthetics. Fajri and Supartini (2015) found 139 species of

plants with a research area of 2.16 ha in community gardens, especially Tem'bak Hamlet, Sintang District, West Kalimantan with vegetation analysis, tengkawang (*Shorea macrophylla*, *S. stenoptera*, *S. beccariana*) plants dominated the valley area and rubber plants (*Hevea brasiliensis*) which dominated hilly areas. The composition of garden plants can be classified according to the categories of herbs or grass, shrubs, trees.

The species of garden plants are often grouped based on the benefits of these plants such as medicinal plants, ornamental plants, ceremonial plants, fruit plants, vegetable plants and others. Sari *et al.* (2015) in West Java, Central Java, East Java and Bali found that medicine plants were planted in home yards. This is related to the tradition of an area that is used to drinking herbal medicine. The yard in Bali is based on the Tri Angga concept, a concept consisting of 3 members of the body which includes the head, body and the lower part. The head in this case means place of worship of the Balinese (temple). Body analogous house and the lower part is the backyard. Among the three places that are usually planted with plants, there is a section called telajakan. Telajakan is the space in front of the wall of the house which is also often planted with various kinds of plants. According to Dwijendra (2013) telajakan is a place of reforestation, one of the elements of traditional green open space in Balinese houses. The plants planted are subjected to various types but are still less in number than plants planted in the backyard or yard. This is caused by the telajakan area is smaller than the area of the home yard or backyard. The plants planted in the telajakan area in Bali, in addition to the three groups, are groups of grass plants, ornamental plants, and fruit trees, also shrubs, trees and creeping plants. This research was conducted to find out whether the types of plants, whether the level of category, what are the benefits and whether the important value of plants are planted in the Telajakan area of in two villages in Bali, namely Cengkilung, Denpasar City and Penglipuran Village, Bangli Regency, Bali Province.

1. Research Methods

The study was conducted in 2018 in Cengkilung Village, Denpasar City and Penglipuran Village, Bangli Regency, Bali Province. Cengkilung village has won several contests about eradicating mosquito nests and cleaning the city in Denpasar as the 2nd winner in 2011 as far as North Denpasar District. One of the criteria in the competition is the condition of the investigation. Penglipuran Village is one of the famous tourist villages and is visited by many domestic and foreign tourists. Penglipuran Village is one of the 3 best villages in the world. The three villages are Giethoorn Village in the Netherlands, Mawlynnong Village in India and Penglipuran Village in Bali (Tracy 2016). This village has many uniqueness, one of which is well-maintained and organized taxation. Data collection methods are carried out through: observations by inventorying and identifying plants planted in house reams, interviewing tax owners about the benefits of taxation.

2. Results and Discussion

2.1 Identification of Telajakan Plants in Two Research Sites namely the Cengkilung village of Denpasar-Bali and the Penglipuran Village of Bangli-Bali

Results of the research on Telajakan plants planted in Cengkilung village, Denpasar, Bali found 40 species of plants in 3 levels of categories, namely herbs, shrubs and trees. The herbs categories are 15 types, the shrubs categories are 15 types and the tree categories are 10 types. Herbs and shrub categories including plant categories with a height of no more than 5 meters make up 23, while tree categories are plants that have a height of more than 5 meters totaling 12 species (Table 1). The plants planted at the farm in the village of Penglipuran in Bangli consist of 77 types which are divided into 3 categories of groups, namely the category of herbs, shrubs and trees, each of which amounts to 23, 44, 10 species (Table 2). The categories of plants that are less than 5 meters high are herbs and shrubs that are planted more because herbaceous plants and shrubs do not require so much land compared to trees. In accordance with the extent of telajakan which only measures 0.5-1.2 m x 9-21 m.

Table 1. Plant groups, local names, species names and benefits in Cengkilung Village, Denpasar, Bali

No	Plant Groups	Common Names	Scientific Names	Benefits
1	Herbs	Giant crinum lily	<i>Crinum asiaticum</i>	1, 2, 3
2	Herbs	Yellow iris	<i>Iris pseudacorus</i>	2, 3
3	Herbs	Creeping-oxeyes	<i>Widelia biflora</i>	3
4	Herbs	Castor oil plant	<i>Ricinus comunis</i>	3
5	Herbs	Orchid	<i>Orchid sp</i>	2, 3
6	Herbs	Japanese lawn grass	<i>Zoysia japonica</i>	2, 3
7	Herbs	Taro	<i>Colocasia esculenta</i>	2, 3

No	Plant Groups	Common Names	Scientific Names	Benefits
8	Herbs	Wild plantain	Heliconia sp	2, 3
9	Herbs	Lily	Amaryllis	2
10	Herbs	The boat lily	Rhoeo discolor	3
11	Herbs	Morning glory	Ipomoea batatas 'Marguerette'	2, 3
12	Herbs	The white clover	Trifolium repens	8
13	Herbs	Skullcaps	Nothopanax scutellarium	3
14	Herbs	Spider plant	Chloropithum comosum	3
15	Herbs	Cogon grass	Imperata cylindrica	8
16	Shrubs	Good luck plant	Cordylina fruticosa	1, 2, 3
17	Shrubs	Crotons 'Narrow leaves'	Codiaeum variegatum	1, 2, 3
18	Shrubs	Crotons 'The leaves are rather wide'	Codiaeum variegatum	1, 2, 3
19	Shrubs	Crotons 'Wide leaves'	Codiaeum variegatum	1, 2, 3
20	Shrubs	Liligundi	Vitex trifolius	2, 3, 7
21	Shrubs	Wild petunias	Ruellia simplex	2, 3
22	Shrubs	Snake plant	Sanseiviera	2, 3, 6
23	Shrubs	Jasmin	Gardenia jasminoides	1, 2, 3
24	Shrubs	Asian pigeon wings	Clitoria ternate	1, 2, 3
25	Shrubs	Ming aralia	Nothopanax fruticosum	1, 3
26	Shrubs	Colloquially	Hibiscus rosa-sinensis	1, 2, 3
27	Shrubs	Giant calotrope	Calotropis gigantea	1, 3
28	Shrubs	Jungle geranium	Ixora paludosa	1, 2, 3
29	Shrubs	The caricature-plant	Graptophyllum pictum	1, 3, 5
30	Shrubs	Don seligi/kayu sisih	Phyllanthus buxifolius	1, 3
31	Tree	Golden cane palm	Dypsis lutescens	2, 3, 4
32	Tree	Siamese rough bush	Streblus asper	2, 3
33	Tree	The cananga tree	Cananga odorata	1, 2, 3, 4
34	Tree	Lillipillies	Oleina syzygium	3, 4
35	Tree	Frangipani 'Sudamala'	Plumeria acuminata	1, 2, 3, 4
36	Tree	Cemetery tree	Polyalthia longifolia	3, 4
37	Tree	The cabbage tree	Cordylina australis	1, 2, 3, 4
38	Tree	Red frangipani	Plumeria rubra	1, 2, 3, 4
39	Tree	Soursop	Anona muricata	2, 4, 5
40	Tree	Christmas palm	Veitchia merillii	2, 3, 4

Information: 1 = ceremony, 2 = economy, 3 = beauty, 4 = canopy, 5 = medicine, 6 = preventing pollution, 7 = anti mosquito, 8= unknown function (wild)

Table 2. Plant Groups, Local Names, Species Names and Benefits in Penglipuran Village, Bangli, Bali

No	Plant Groups	Common Names	Scientific Names	Benefit
1	Herbs	Pandan	Pandanus spinosus	1, 2, 3
2	Herbs	Pandan	Pandanus amaryllifolius	1, 2, 3
3	Herbs	Stag horn fern	Platycerium coronarium	1, 2, 3
4	Herbs	Taro	Colocasia esculenta	2, 3
5	Herbs	Napier grass	Penisetum purpureum	3
6	Herbs	Wild plantain	Heliconia sp	2, 3
7	Herbs	Giant crinum lily	Crinum asiaticum	2, 3
8	Herbs	Eggplant	Solanum melongena	2, 3
9	Herbs	Lily	Amaryllis variegata	2, 3
10	Herbs	The crown of thorns	Euphorbia milii	2, 3
11	Herbs	Big leaf hydrangea 'Red flower'	Hydrangea macrophylla	1, 2, 3
12	Herbs	Big leaf hydrangea 'White flower'	Hydrangea macrophylla	1, 2, 3
13	Herbs	Chinese evergreens	Aglonema simplex	2, 3
14	Herbs	Betel	Piper betle	1, 2, 3
15	Herbs	Orchid	Orchid sp	3
16	Herbs	Spider plant	Chloropithum comosum	3
17	Herbs	Garden balsam 'Red flower'	Impatien balsamina	1, 2, 3
18	Herbs	Dwarf mondo grass	Ophiopogon japonicus	3
19	Herbs	Rose moss 'Yellow flower'	Portulaca grandiflora	3
20	Herbs	Rose moss 'Orange flower'	Portulaca grandiflora	3
21	Herbs	Rose moss 'Red flower'	Portulaca grandiflora	3

No	Plant Groups	Common Names	Scientific Names	Benefit
22	Herbs	Garden balsam 'Pink flower'	Impatien balsamina	1,2,3
23	Herbs	Giant taro	Alocasia	3
24	Shrubs	Cockscomb 'Red flower'	Celosia cristata	2, 3
25	Shrubs	Cockscomb 'White flower'	Celosia cristata	1, 2, 3
26	Shrubs	Egyptian star cluster 'Purple flower'	Pentas lanceolatus	3
27	Shrubs	Egyptian star cluster 'Pink flower'	Pentas lanceolatus	3
28	Shrubs	Egyptian star cluster 'Yellow flower'	Pentas lanceolatus	3
29	Shrubs	Egyptian star cluster 'Red flower'	Pentas lanceolatus	3
30	Shrubs	Egyptian star cluster 'Orange flower'	Pentas lanceolatus	3
31	Shrubs	The scarlet sage 'Purple flower'	Salvia splend	3
32	Shrubs	The scarlet sage 'Pink flower'	Salvia splend	3
33	Shrubs	The scarlet sage 'White flower'	Salvia splend	3
34	Shrubs	Bird's nest anthurium	Anthurium plowmanii.	2, 3
35	Shrubs	Lollipop plant	Pachystachys lutea	2, 3
36	Shrubs	Good luck plant	Cordyline fruticosa	1, 2, 3
37	Shrubs	Great bougainvillea	Bougainvillea spectabilis	1, 2, 3, 4
38	Shrubs	Chinese perfume plant	Aglaia odorata	1, 2, 3
39	Shrubs	Snake plant	Sansevieria trifasciata	2, 3, 6
40	Shrubs	Madagascar periwinkle	Catharanthus roseus	1, 2, 3
41	Shrubs	Mexican creeper	Antigonon leptopus	2, 3
42	Shrubs	Crotons 'Narrow leaves'	Codiaeum variegatum	1, 2, 3
43	Shrubs	Crotons 'The leaves are rather wide'	Codiaeum variegatum	1, 2, 3
44	Shrubs	Jungle geranium	Ixora paludosa	1, 2, 3
45	Shrubs	Physic nut.	Jatropha curcas	1, 3, 8
46	Shrubs	Golden trumpet	Alamanda cathartica	1, 2, 3
47	Shrubs	Ming aralia	Nothopanax fruticosum	1, 2, 3
48	Shrubs	Lavender	Lavandula affinalis	2, 3, 7
49	Shrubs	China aster 'Pink flower'	Aster chinensis	2, 3
50	Shrubs	China aster 'Red flower'	Aster chinensis	2, 3
51	Shrubs	Jasmin	Gardenia jasminoides	1, 2, 3
52	Shrubs	Asian pigeon wings 'Purple flower'	Clitoria ternatea	1, 2, 3
53	Shrubs	Globe amaranth	Gomphrena globosa	1, 3
54	Shrubs	Colloquially	Hibiscus rosa-sinensis	1, 3
55	Shrubs	Indian fig opuntia	Opuntia vulgaris	3
56	Shrubs	Asian pigeon wings 'White flower'	Clitoria ternatea	1, 3
57	Shrubs	Asian pigeon wings 'Purple flower'	Clitoria ternatea	1, 2, 3
58	Shrubs	Dwarf umbrella tree	Schefflera arboricola	1, 2, 3, 4
59	Shrubs	Arabian jasmine	Jasminum sambac	1, 2, 3
60	Shrubs	Peacock flower	Caesalpinia pulcherrima	1, 3
61	Shrubs	Four o'clock flower	Mirabilis jalapa	3
62	Shrubs	Tomato	Solanum lycopersicon	2, 3
63	Shrubs	Climbing wool-plant	Aerva sanguinolenta	3
64	Shrubs	Hybrid tea rose	Rosa hybrida	1, 2, 3
65	Shrubs	Ming aralia	Polyscias fruticosa	1, 3
66	Shrubs	Colloquially	Hibiscus rosa-sinensis	1, 3
67	Shrubs	Chili pepper	Capsicum frutescens	2, 3
68	Tree	Lillipillies	Oleina syzygium	3, 4
69	Tree	Golden cane palm	Dypsis lutescens	2, 3, 4
70	Tree	Christmas palm	Veitchia merillii	1, 2, 3, 4
71	Tree	The suren toon	Toona sureni	1, 2, 3, 4
72	Tree	Japanese Glory bower	Clerodendrum japonicum	2, 3, 4
73	Tree	The cabbage tree	Cordyline australis	1, 2, 3, 4
74	Tree	Champak	Michellia champaca	1, 2, 3, 4
75	Tree	The cananga tree	Cananga odorata	1, 2, 3
76	Tree	Frangipani 'Sudamala'	Plumeria acuminata	1, 2, 3
77	Tree	The wild musaenda	Musaenda frondosa	1, 2, 3

Information: 1 = ceremony, 2 = economy, 3 = beauty, 4 = canopy, 5 = medicine, 6 = preventing pollution, 7 = anti-mosquito, 8 = biodiesel

Residents already understand the wide range of conditions that are so narrow that they plant plants that are broadly suitable for their crops and their roots do not disturb the walls. But sometimes residents plant trees because of their benefits such as canopy, beauty and increasing the family's economy. According to Narendreswari *et al.*, (2014) that herbaceous and shrub plants were also found in identifying Landscape plants on the Green Line Laksda Adisucipto street, Urip Sumoharjo, and Jendral Sudirman Yogyakarta, Indonesia.

2.2 The Benefits of Telajakan Plants in Two Research Locations, namely the Cengkilung village of Denpasar-Bali and the Penglipuran Village of Bangli-Bali

The Plants are planted in Telajakan are dominated by plants that are beneficial for beauty both in the villages of Cengkilung and in the village of Penglipuran (Figures 1 and 2). Many plants that are beneficial to beauty are included in the herb and shrubs level category. Beauty can come from the color of leaves, stems and flowers. Telajakan is a small garden in front of a house that is a leading garden from home so the homeowner gives a good image of the front view of the house. Ornamental plants that are planted in the Telajakan area that function for beauty greatly support villages in Bali as tourist villages. Kato *et al.* (2017), once reported that plants planted in Telajakan in large part function as beauty.

Various types of ornamental plants are planted in Penglipuran Village, which is a type of Egyptian star cluster (*Pentas lanceolatus*) with various varieties or cultivars and the scarlet sage (*Salvia splendens*) also with various varieties and cultivars. Both of these plants have many attractive colored flowers that support the development of Penglipuran village as a tourist village. The planting of these two plants which were imported from the Bogor, West Java area then the planting process which was coordinated by the traditional institution of Penglipuran village was supported by the community. According to Andriyani *et al.*, (2017) that the success of a village as a tourist village is partly due to the empowerment of its people in the process of developing the tourism village.

The development of Penglipuran tourism village in addition to the beautiful telajakan arrangement also maintains the uniqueness of traditional house arrangement with its Angkul-angkul (entrance to the house) using a bamboo roof (Figure 3B), its culinary uniqueness such as Loloh Cemcem drinks and Loloh Teleng. Bamboo is a native plant and many are found in Penglipuran village and there are even bamboo forests that are still preserved today. Loloh cemcem is a traditional drink in the village of Penglipuran made from wild (or forest) mango (*Spondias pinata*). Loloh Teleng is made from squeezed Asian pigeonwings 'Purple flower' (*Clitoria ternatea*) (Darmadi 2017). So the development of tourism in an area is one of them by developing original potential that becomes a unique area that is not found in other regions. According to Suhartini *et al.*, (2013) that the diversity of plants cultivated in the yard has the potential to be developed into a tourist village based on superior plant products (e.g. salak produced in Sleman Jogjakarta village), a craft-based tourist village made from plants (bamboo and mendong), a tourist village because of the beauty of its environment.

For Cengkilung Village, besides the use of Telajakan plants for beauty or decoration, it is also to increase the family economy (Figures 1 and 2). The cabbage tree (*Cordyline australis*) planted by people for resale to other communities in Bali. This plant (*C. australis*) leaves are needed by Barong craftsmen in Bali. The cabbage tree leaves can be used for making Balinese Barong hair (Figure 3A). Utilization of yard plants for additional family income has also been studied by Khomah and Fajarningsih (T.T.) that garden plants are planted both in the yard and planted with polybag in the yard of the house can be used to meet food needs, especially for vegetables and fruit. Yard plants can also reduce family expenses and can increase family income. Oelviani and Utomo (2015) that the use of yards to be planted with various crops with integrated farming systems can increase family income and support sustainable family food security.

Plants planted on land both in the village of Cengkilung and in the village of Penglipuran are also widely used for Balinese Hindu ceremonies (Figures 1 and 2). Flowers from ornamental plants can be used by means of Canang. Canang is one of the means of worshiping Hindu Balinese. Other parts besides flowers such as leaves, stems, fruit, and seeds can be used for Balinese Hindu religious ceremonies. Other studies have also been reported by Suhartini *et al.* (2013) that plants planted in yards in the Sleman area of Jogjakarta are also used for custom and diversity. The research found ten plants for traditional and religious activities, namely Champak (*Michelia alba*), frangipani (*Plumeria acuminata*), coconut (*Cocos nucifera*), cananga (*Cananga odorata*), rose (*Rosa sp.*), Jasmine (*Jasminum sambac*), palm (*Chrysalidocarpus lutescens*), cypress (*Cupressus lusitanica*), plantain (*Musa paradisiaca*), cane wulung (*Saccharum officinarum*). Pramita *et al.* (2013) stated that the Tengger community in Ngadas village in conserving plants intended for Kasada traditional ceremonies and surrender of crops. The types of plants used are edelweiss (*Anaphalis longifolia*) 96%, rice (*Oryza sativa*) 94%, potatoes (*Solanum tuberosum*) 90%, leek (*Allium fistulosum*) 86%, putihan (*Buddleja asiatica*) 84%, cabbage (*Brassica*

oleraceae) 80%, earrings (*Fuchsia magellanica*) 78%, plantain (*Musa paradisiaca*) 74%, telotok (*Curculigo latifolia*) 70%, kenikir/gumitir (*Cosmos caudatus*) 68%, areca (*Areca catechu*) and banyan (*Ficus benjamina*) 46%, danglu (*Engelhardia spicata*) 40%, coconut leaf Janur (*Cocos nucifera*) 30%, betel (*Piper betle*) 28%, and corn (*Zea mays*) 24%. Karina (2014) found 3 types of garden plants used for ritual purposes in mixed communities in Layana Indah Village, Palu Timur Subdistrict, Central Sulawesi. The three types of plants are the frangipani (*Plumeira acuminata*) at the mitoni ceremony (the seven-month ceremony of pregnancy). The Sidaguri "Silaguri" plant (*Sida acuta* L) is used by people who set up new homes and cayenne (*Capsicum frutescens*) plants used in the fetish poppet to ward off the magic science "Marisa mbaso".

Plants that are planted in Telajakan are also useful as canopy plants or shade. The number of shade plants planted in the farm is less than for ornamental plants or for beauty, plants to improve the family economy and ceremonial plants. Shade plants include tree level categories. A level category that has a height of more than 5 meters. Shade plants require a wider area than herbaceous plants and shrubs. Shade plants have characteristics that are many branches, with thick shade from leaves and twigs so that those who plant them feel shaded from the hot sun. Rahayu and Prowiroatmodjo (2005) have reported that maja and ketapang plants (*Terminalia catappa*) in Lampeapi Village, Wawoni Island, Southeast Sulawesi, are shade plants. Silalahi (2016) once reported that plants planted in the yard of the Indonesian Christian University (UKI) Campus in Cawang, East Jakarta were dominated by shade plants.

Figure 1. Benefits of plants grown in the Telajakan of Cengkilung village, Denpasar, Bali, bea = beauty, eco = family economy, cer = ceremony, can= canopy, med = medicine, pol = anti pollution, mos = mosquito repellent

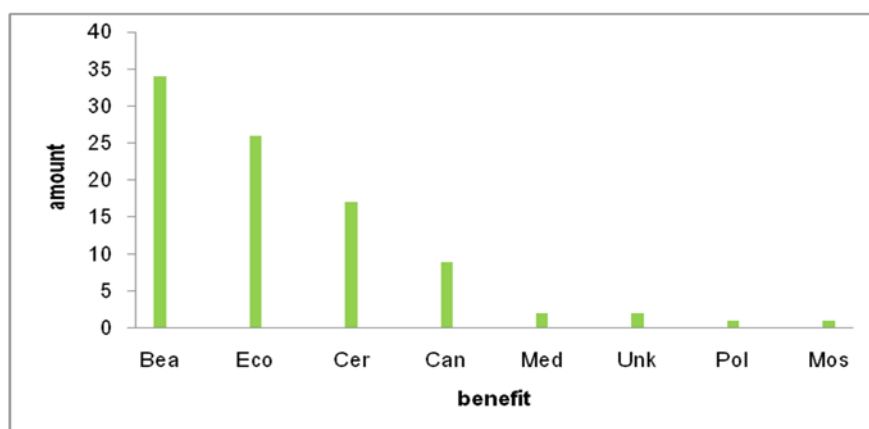


Figure 2. Benefits of plants grown in Telajakan in Penglipuran village, Bangli Regency, Bali province, bea = beauty, eco = family economy, cer = ceremony, can = canopy, mos = mosquito repellent, bio = biodiesel

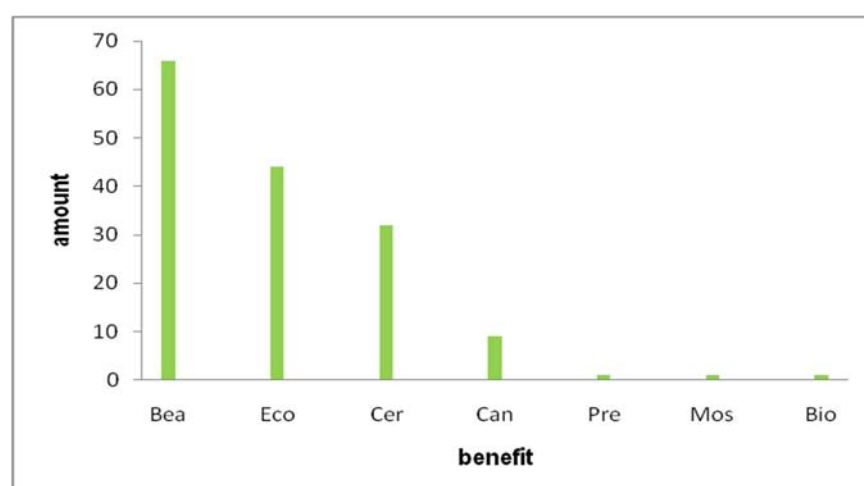
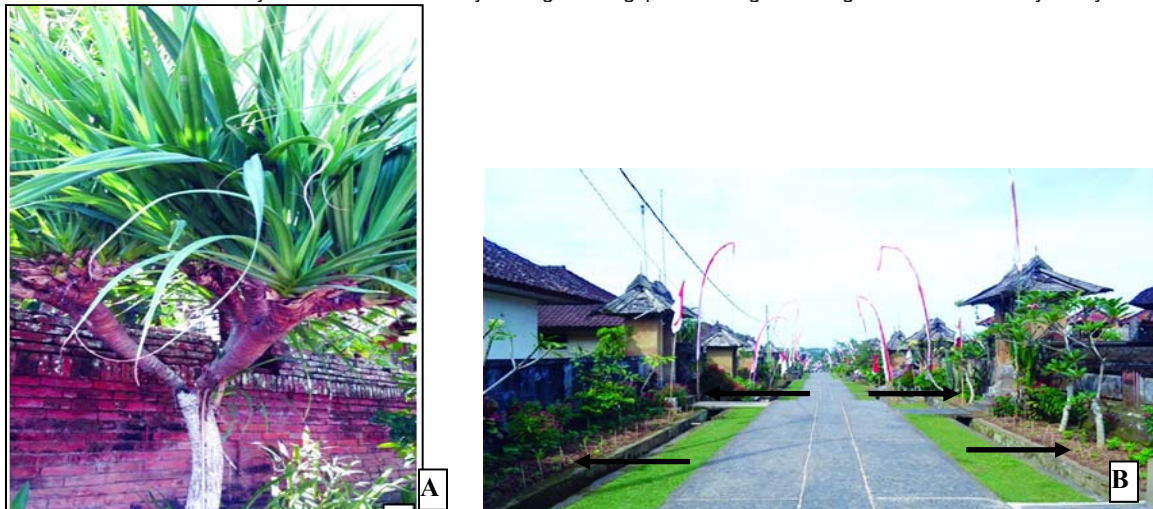


Figure 3. A. The cabbage tree (*Cordyline australis*) planted in Telajakan in Cengkilung Village, Denpasar, B. The arrows show the Telajakan area in the neatly arranged Penglipuran Village of Bangli which is visited by many tourists



Source: Darmadi 2017

2.3 Vegetation Analysis

The average size of telajakan in Cengkilung Village is $\pm 21\text{m}$ long and 1.2m wide. The results of vegetation analysis of plants that grow in Cengkilung Village with the highest important value in the tree category are the cabbage tree (*Cordyline australis*) plants which are equal to 129% (Table 3). This plant is widely planted in the village of Cengkilung because of its economic value for the Cengkilung community. This plant after being planted in Telajakan and will be sold later to the people in need. This plant is useful as an ornamental plant in the garden, also the leaves can be used to make hair from barong crafts. After The cabbage tree, Frangpani 'Sandalwood' or (*Plumeria acuminata*) plants also have a high important value of 101% (Table 3). This plant is widely planted in Cengkilung Village because it is easily planted, fast growing and big fast. This plant blooms a lot with the color of yellow flowers and the flower smell is fragrant like the smell of sandalwood. Once upon a time in Bali the price of dried flowers on the market was expensive, which ranged from 100,000-150,000 rupiah per kilogram and Frangpani 'Sandalwood' flowers were the prima donna at that time. According to Maya-ethnobotany (2017) that frangipani flowers belonging to the *Plumeria* clan are used for ceremonies by the Mayans. According to Verma (2016), *Plumeria rubra* plant as well as an ornamental plant, this plant is also used for medicine. This plant has biological activities as antipyretic, antifungal, antiviral, analgesic, anticancer, antioxidative and hypolipidemic, proteolytic, cytotoxic activities etc.

In the shrub category which has the highest importance is Croton "Wide leaf" plant (*Codiaeum variegatum*) with an important value of 75.3% (Table 3). These dominating plants are planted in the Telajakan by residents. This plant is widely used by residents for Balinese Hindu ceremonies. The leaves of this plant are widely used to decorate Penjor. According to Dutta (2004) *Codiaeum* plants are tropical ornamental plants that have very beautiful leaf color variations.

In the herbal category which has the highest important value are Japanese grass plants (*Zoysia japonica*) with a value of 43.4% (Table 3). Japanese grass plants are planted because this type of grass is easy to plant and very beautiful for garden landscaping.

The size of the Telajakan average in Penglipuran Village is $\pm 9\text{m}$ long and 0.57m wide. The highest important value in the tree category is the cananga tree (*Cananga odorata*) with a value of 109%. This plant is widely planted because this plant is useful for ceremonies. This plant has fragrant flowers. In the category of shrubs of Dwarf umbrella tree leaves (*Schefflera grandiflora*) with the highest important value of 33.4% (Table 4). This plant is widely planted by residents because it is useful for repellent reinforcements. In the category of shrub types of Chicken combs 'Purple flowers', 'Red flowers' (*Celosia cristata*), Egyptian star cluster 'Red flowers', 'Ping flowers' and 'Purple flowers' (*Pentas lanceolata*), China aster 'Pink flower', 'Red flowers', and 'Purple flower' (*Aster chinensis*) has a high importance. This plant blooms a lot, with beautiful, colorful, but short-lived flower colors. This plant supports the activities of the penglipuran flowering festival.

The herb category is dominated by the spider plant (*Chlorophytum comosum*) with the highest important value of 64.6%. This plant is used for decoration. At the herb level it is also dominated by Water henna plants

(*Impatiens balsamina* 'Red flower', 'Pink flowers'). Flowers of this flower are used for ceremonies and decorations (Table 4).

Table 3. Relative Density (RD), Relative frequency (RF), Relative Dominance (RD) and Value Important (VI) for several. Telajakan plants in Cengkiling Village, Denpasar, Bali

No	Plant Group	Common Names	Species Names	RD (%)	RF (%)	RD (%)	VI (%)
1	Tree	The cabbage tree	<i>Cordyline australis</i>	47	32.1	50.1	129
2	Tree	Frangipani 'Sandalwood'	<i>Plumeria acuminata</i>	41	25.6	33.8	101
3	Tree	Frangipani 'Bali white'	<i>Plumeria acuminata</i>	4.3	12.8	4.9	22
4	Tree	Sour sop	<i>Anona muricata</i>	2.9	7.7	4.05	14.6
5	Tree	Cemetery tree	<i>Polyalthia longifolia</i>	1.4	7.7	3.9	13
6	Tree	Frangipani 'Pink flower'	<i>Plumeria acuminata</i>	1.4	6.4	3.1	10.9
7	Tree	The cananga tree	<i>Cananga odorata</i>	1.4	7.7	0.3	9.43
8	Shrub	Croton 'Wide leaf'	<i>Codiaeum variegatum</i>	43	15	17.3	75.3
9	Shrub	Colloquially	<i>Hibiscus rosa-sinensis</i>	14	15	19.2	48.2
10	Shrub	Jasmine	<i>Gardenia jasminoides</i>	9.5	15.4	23	47.9
11	Shrub	Wild plantain	<i>Heliconia</i>	4.8	7.7	15.9	28.4
12	Shrub	Good luck plant	<i>Cordylol fruticosa</i> 'Red leaf'	4.8	7.7	11.5	24
13	Shrub	The caricature-plant	<i>Graptophyllum pictum</i>	4.8	7.7	5.3	17.8
14	Shrub	Liligundi	<i>Vitex trifolius</i>	4.8	7.7	3.7	16.2
15	Shrub	Don seligi/kayu sisih	<i>Phyllanthus buxifolius</i>	4.8	7.7	3.2	15.7
16	Shrub	Crotons 'Narrow leaves'	<i>Codiaeum variegatum</i>	4.8	7.7	0.5	13
17	Shrub	Asian pigeonwings 'Pink flower'	<i>Clitoria ternate</i>	4.8	7.7	0.39	12.9
18	Herbs	Japanese lawngrass	<i>Zoysia japonica</i>		14	29.4	43.4
19	Herbs	The white clover	<i>Trifolium repens</i>		14	24.5	38.5
20	Herbs	Skullcaps	<i>Nothopanax scutellarium</i>		14	16	30
21	Herbs	Creeping-oxeyes	<i>Widelia biflora</i>		14	9.8	23.8
22	Herbs	Spider plant in english	<i>Chlorophytum comosum</i>		14	9.8	23.8
23	Herbs	Yellow iris	<i>Iris pseudacorus</i>		14	9.8	23.8
24	Herbs	Cogon grass	<i>Imperata cylindrica</i>		14	0.98	15

Table 4. Relative Density (RD), Relative Frequency (RF), Relative Dominance (RD) and Value Important (VI) for several. Telajakan plants in Penglipuran Village, Bangli, Bali

No	Plant group	Local Names	Species Names	DR (%)	FR (%)	Dom (%)	NP (%)
1	Tree	The cananga tree	<i>Cananga odorata</i>	39	32	38	109
2	Tree	Frangipani 'Sudamala'	<i>Plumeria acuminata</i>	32	32	40	104
3	Tree	Frangipani 'Bali white'	<i>Plumeria acuminata</i>	16	20	18	54
4	Tree	Frangipani 'pink flower'	<i>Plumeria acuminata</i>	6.5	8	3	17.5
5	Tree	The wild musaenda	<i>Musaenda frondosa</i>	3.2	4	0.6	7.8
6	Tree	Lillipillies	<i>Oleina syzygium</i>	3.2	4	0.2	7.4
7	Shrubs	Dwarf umbrella tree	<i>Schefflera grandiflora</i>	1	2.4	30	33.4
8	Shrubs	Cockscomb 'Red flower'	<i>Celosia cristata</i>	24	4.8	1.8	30.6
9	Shrubs	Great bougainvillea	<i>Bougainvillea spectabilis</i>	1	2.4	26	29.4
10	Shrubs	Egyptian star cluster 'Red flower'	<i>Pentas lanceolata</i>	8.2	9.6	8	25.8
11	Shrubs	Asian pigeon wings 'Purple flower'	<i>Clitoria ternate</i>	3.1	2.4	15	20.5
12	Shrubs	China aster 'Pink flower'	<i>Aster chinensis</i>	8.2	7.2	1.6	17
13	Shrubs	Hybrid tea rose	<i>Rosa hybrida</i>	4.1	9.6	2.6	16.3
14	Shrubs	Egyptian star cluster 'Pink flower'	<i>Pentas lanceolata</i>	8.2	4.8	2.4	15.4
15	Shrubs	Cockscomb 'Red flower'	<i>Celosia cristata</i>	8.2	4.8	0.6	13.6
16	Shrubs	Egyptian star cluster 'Purple flower'	<i>Pentas lanceolata</i>	3.1	7.2	0.5	10.8
17	Shrubs	China aster 'Red flower'	<i>Aster chinensis</i>	4.1	4.8	1.1	10
18	Shrubs	Arabian jasmine	<i>Jasminum sambac</i>	3.1	2.4	1.7	7.2
20	Shrubs	Peacock flower	<i>Caesalpinia pulcherrima</i>	2.1	2.4	1.4	5.9
21	Shrubs	China aster 'Pink flower'	<i>Chrysanthemum indicum</i>	3.1	2.4	0.3	5.8

No	Plant group	Local Names	Species Names	DR (%)	FR (%)	Dom (%)	NP (%)
23	Shrubs	Yellow liligundi		1	2.4	0.7	4.1
24	Shrubs	Four o'clock flower	Mirabilis jalapa	1	2.4	0.7	4.1
25	Shrubs	Tomato	Solanum lycopersicon	1	2.4	0.7	4.1
26	Shrubs	Climbing wool-plant	Aerva sanguinolenta	1	2.4	0.7	4.1
27	Shrubs	Mexican creeper	Antigonon leptopus	1	2.4	0.7	4.1
28	Shrubs	Hybrid tea rose	Rosa hybrida	1	2.4	0.4	3.8
29	Shrubs	Ming aralia	Polyscias fruticose	1	2.4	0.4	3.8
30	Shrubs	Colloquially	Hibiscus rosa-sinensis	1	2.4	0.4	3.8
31	Shrubs	Golden trumpet	Alamanda cathartica	1	2.4	0.3	3.7
33	Shrubs	Chili pepper	Capsicum frutescens	1	2.4	0.3	3.7
34	Shrubs	Egyptian star cluster 'Purple flower'	Pentas lanceolata	1	2.4	0.2	3.6
35	Shrubs	Jasmine	Gardenia jasminoides	1	2.4	0.2	3.6
36	Herbs	Spider plant	Chlorophytum comosum		28.6	36	64.6
37	Herbs	Garden balsam 'Red flower'	Impatiens balsamina		23.8	11	34.8
38	Herbs	Dwarf mondo grass	Ophiopogon japonicus		14.3	17	31.3
39	Herbs	Rose moss 'Yellow flower'	Portulaca grandiflora		4.76	10	14.8
40	Herbs	Rose moss 'Orange flower'	Portulaca grandiflora		4.76	8.9	13.7
41	Herbs	Big leaf hydrangea	Hydrangea macrophylla		4.76	5.1	9.86
42	Herbs	Rose moss 'Red flower'	Portulaca grandiflora		4.76	3.8	8.56
43	Herbs	Garden balsam 'Pink flower'	Impatiens balsamina		4.76	3.8	8.56
44	Herbs	Giant taro	Alocasia		4.76	2.5	7.26
45	Herbs	Giant crinum lily	Crinum asiaticum		4.76	2.5	7.26

Conclusion

From the results of the study it can be concluded that: Telajakan plants in the village of Cengkilung Denpasar consists of 40 species distributed into 3 categories of group growth namely herbs, shrubs and trees each of 15, 15, 10 species. The number of plants in the village of Penglipuran is 77 species in 3 categories of groups, which are herbs, shrubs and trees of 23, 44 and 10 species respectively. Most of the plants planted in the villages are used for beauty (ornamental), adding to the family economy, ritual or ceremony and canopy. The beauty and uniqueness of an environment supports an area as a tourist destination.

The highest important values in the tree category of the Telajakan plants in the village of Cengkilung are the cabbage tree (*Cordyline australis*) and Frangipani 'Cendana' (*Plumeria acuminata* 'Sandalwood ') plants of 129% and 101% respectively. In the category of shrubs and herbs respectively are Croton "wide leaf" (*Codiaeum variegatum*) and Japanese grass plants (*Zoysia japonica*) of 75.3% and 43.4% respectively. Telajakan plants that have the highest importance on the tree, shrub and herbaceous categories in Penglipuran village are Kananga (*Cananga odorata*), Dwarf umbrella tree (*Schefflera grandiflora*) and spider plant (*Chlorophytum comosum*), and respectively each of them was 109%, 33.4% and 64.6%.

Acknowledgments

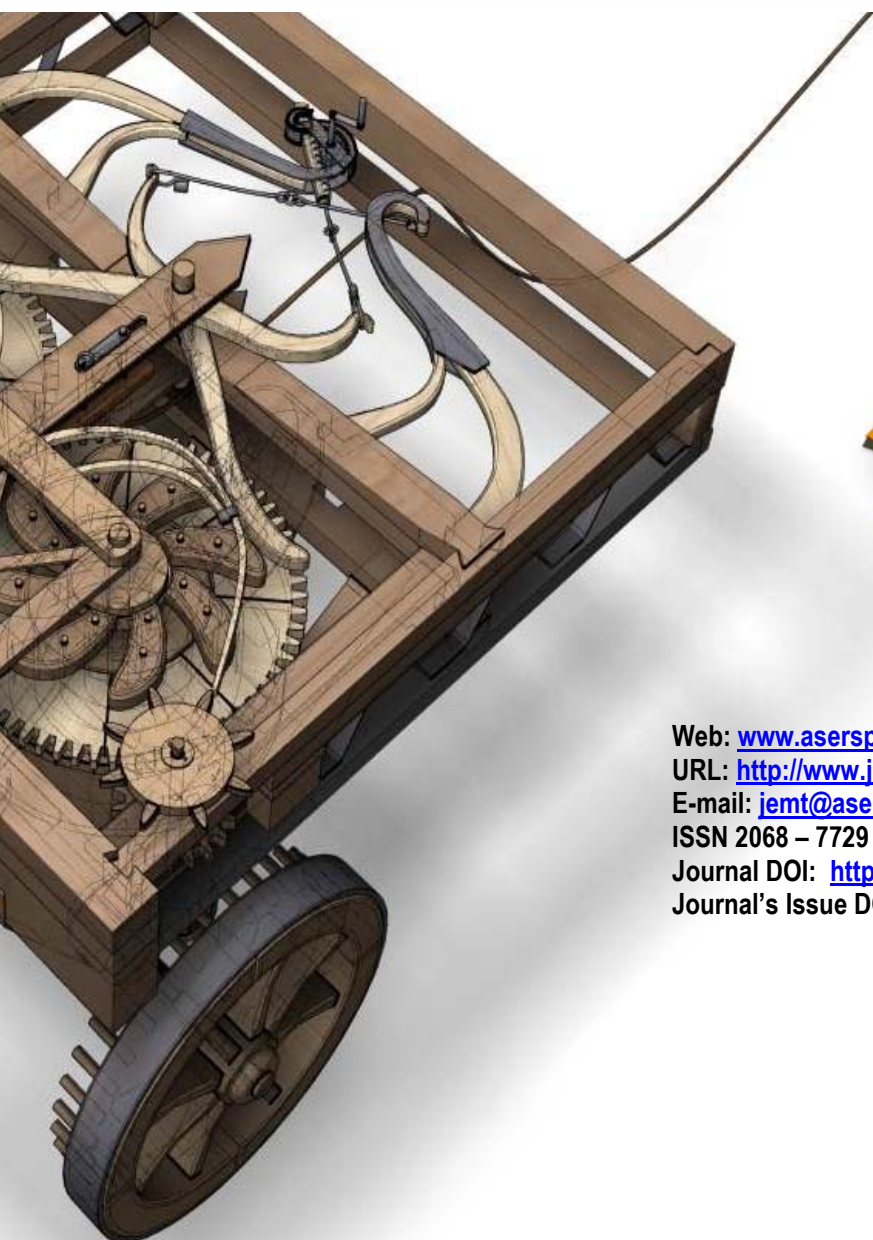
We would like to thank the Faculty of Mathematics and Natural Sciences of Udayana University for funding this research through DIPA BLU UNUD Fund with grant Number DIPA: 2030/UN14.2.8.II/LT/2018, dated March 7, 2018.

Reference

- [1] Andriyani, A.A.I., Martono, E., and Muhamad. 2017. Community Empowerment through Tourism Village Development and Its Implications for Regional Socio-Cultural Resilience (Study in Penglipuran Tourism Village, Bali). *Jurnal Ketahanan Nasional*, 23(1): 1-16. DOI: <https://doi.org/10.22146/jkn.18006>
- [2] Darmadi, A.A.K. 2017. *Ethnobotany. Ethnobotany variety in Bali*. Denpasar-Bali: Udayana University Press.
- [3] Duta, A.C. 2004. *Botany for Degree Students*, 6th Ed, Oxford University Press, pp. 415-417, 592
- [4] Dwijendra, N.K.A. 2013. "Telajakan" Traditional Balinese Green Open Space. *Jurnal New Media*, 4(2): 44-76.

- [5] Fajri, M. and Supartini.2015. Analysis of Tengkawang Vegetation in Community Gardens in Sintang District, West Kalimantan. *JURNAL Penelitian Ekosistem Dipterokarpa*, 1(2): 55-62.. DOI: <https://doi.org/10.20886/jped.2015.1.2.55-62>
- [6] Karina, S. 2014. Useful Species of Plants in Mixed Communities in Layana Indah Village, Palu Timur Subdistrict, Central Sulawesi. *Jurnal Biocелеbes*, 8(2): 1-12.
- [7] Kato, S., Hishiyama, K., Darmadi, A.A.K., and Suprpta, D.N. 2017. Changing Roles of Traditional Small Urban Green Spaces (Telajakan) in Bali, Indonesia. *Open Journal of Ecology*, 7: 1-11. DOI: 10.4236/oje.2017.71001
- [8] Khomah, I., and Fajarningsih, R.U. T.T. Potential and Prospects of Land Use Utilization on Household Income. Proceeding of the National Seminar on UMKM Capability Enhancement in Realizing Upscale .155-161.
- [9] Maya-ethnobotany. 2017. Plumeria (Flor de Mayo, Frangipani) discovered in Alta Verapaz between Tucuru and La Tinta, Guatemala. Available at: <http://www.maya-ethnobotany.org/home/page-3.php>
- [10] Narendreswari, A.R., Trisnowati, S., and dan Irwan, S.N.R. 2014. Study of the Function of Landscape Plants on the Green Line Laksda Adisucipto Street, Urip Sumoharjo, and Jendral Sudirman Yogyakarta. *Vegetalika*, 3(1): 1-11. DOI: <https://doi.org/10.22146/veg.4010>
- [11] Oelviani, R., and Utomo, B.2015. Integrated farming system in the yard supports sustainable family food security: A case study in Plukar Village, Gembong District, Pati Regency, Central Java. *PROS SEM NAS MASY BIODIV INDON*, 1(5): 1197-1202. DOI: 10.13057/psnmbi/m010541
- [12] Pramita, N.H., Indriyani, S., and Hakim, L. 2013. Ethnobotany Kasada Community Tengger Ceremony, in Ngadas Village, Poncokusumo District, Malang Regency. *Journal of Indonesian Tourism and Development Studies*, 1(2): 52-61. <http://ppsub.ub.ac.id/JurnalPPSUB/JITODE/JITODE%20Vol.%201%20No.%202%202013.pdf>
- [13] Rahayu, M. and dan Prawiroatmodjo, S. 2005. Diversity of Garden Plants and Their Utilization in Lampeapi Village, Wawoni Island, Southeast Sulawesi. *J.Tek. Ling P3TL-BPPT*, 6(2): 360-364. DOI: <http://dx.doi.org/1029122/jtl.v6i2338>
- [14] Sari, I.D., et al. 2015. Community Tradition in Planting and Utilizing Medicinal Plants in the Yard. *Jurnal Kefarmasian Indonesia*, 5(2): 123-132. DOI: 10.22435/jki.v5i2.4407.123-132
- [15] Silalahi, M. 2016. Diversity and Distribution of Beneficial Plants in the Campus of the Indonesian Christian University (UKI) Cawang, East Jakarta. *Jurnal Biologi*, 20(2): 75-82.
- [16] Suhartini, Tandjung, S.D., Fandeli, C., and Baiquni, M. 2013. The Role of Plant Diversity in the Yard in Community Life in Sleman Regency. Paper prepared for the journal Biodiversity.
- [17] Tracy, M. 2016. Penglipuran Village, Bali: The Best Village in the World. [Quoted: August 22, 2017]. Available at: <https://www.pegipegi.com>
- [18] Verma, S. 2016. Multipurpose Ornamental Plant Plumeria rubra Linn (Apocynaceae). *IJSRSET*, 4(2):646-649.

ASERS



 **ASERS**
Publishing

Web: www.aserspublishing.eu

URL: <http://www.journals.aserspublishing.eu/jemt>

E-mail: jemt@aserspublishing.eu

ISSN 2068 – 7729

Journal DOI: <http://dx.doi.org/10.14505/jemt>

Journal's Issue DOI: [http://dx.doi.org/10.14505/jemt.v10.1\(33\).00](http://dx.doi.org/10.14505/jemt.v10.1(33).00)