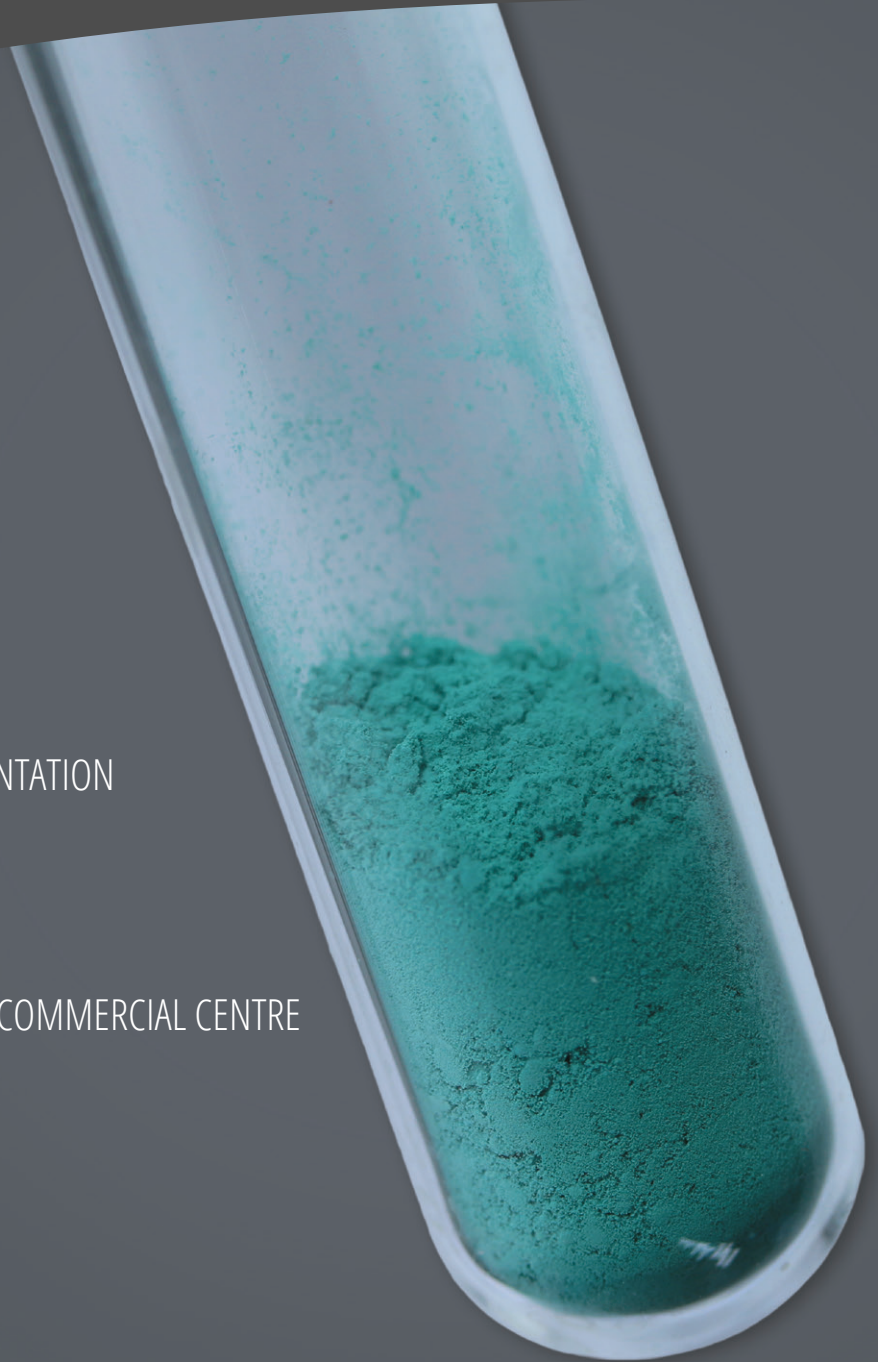


SARAWAK BIODIVERSITY CENTRE

ANNUAL REPORT

TRADITIONAL KNOWLEDGE DOCUMENTATION
ACCESS AND BENEFIT SHARING
BIODIVERSITY GARDEN
R&D BIODISCOVERY
AWARENESS & APPRECIATION
BIOINDUSTRIAL PARK & BIOPROCESS COMMERCIAL CENTRE



Sarawak
Biodiversity Centre

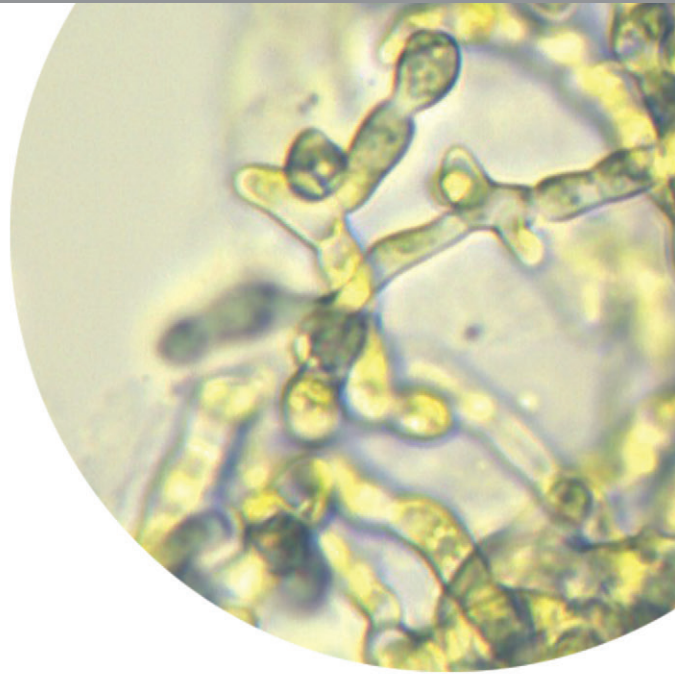
2019

Cover Photo

Phycocyanin, a blue pigment that can be found in *Spirulina*, a blue-green algae. The non-toxic, water-soluble blue pigment is widely used in dietary nutritional supplements and as a natural colorant in food, nutraceutical and cosmetic applications. It's antioxidant, anti-inflammatory and neuroprotective properties have turned it into one of the highest value products derived from microalgae.

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Vision

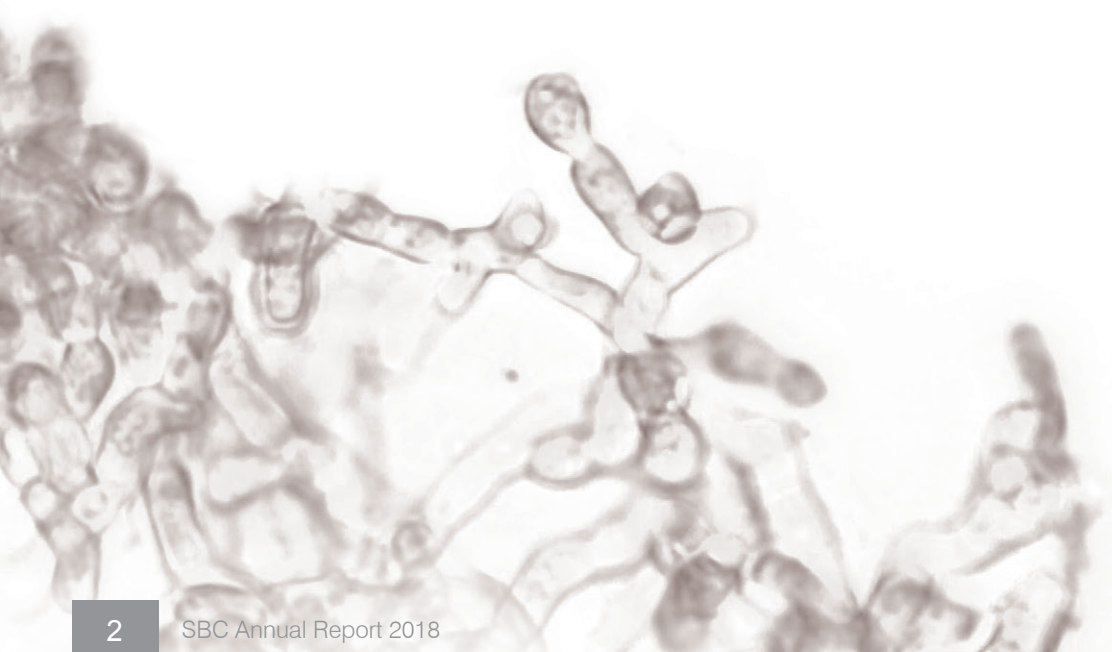
Enriching Lives with
Breakthrough Innovation in
Biodiversity

Mission

To Decode Biodiversity for the
Benefit of Mankind

Tagline

Biodiversity for a Better Tomorrow



Foreword from the Chairman of the Sarawak Biodiversity Council 2019



In 2019, the Sarawak Biodiversity Centre (SBC) saw a boost in comprehensive and collaborative growth, delivering on its commitment towards commercialisation. SBC successfully launched the largest outdoor Algae Cultivation Facility (ACF) in South East Asia measuring 1000m². ACF is an optimised outdoor photo-bioreactor system that maximises yield and minimises cost by growing microalgae strains supported by the use of smart monitoring of Internet of Things (IoT) technology. The facility, inaugurated by The Right Honourable Chief Minister of Sarawak in August 2019, has a capacity to yield up to 60 tonnes per hectare per year of dried algae biomass.

In addition, the Government of Sarawak allocated RM20 million under the Projek Rakyat Fund to establish 100 acres State Bioindustrial Park and Bioprocess Commercial Centre. Upon completion, the park will support the agricultural supply chain in Kota Samarahan, which is vital in the development of downstream industries based on agriculture and natural resources in the state. Once the park is fully operational, Sarawak will be able to position itself as hub for bio-economy and draw investors globally.

In March 2019, Sarawak has also positioned itself at the forefront in sharing benefits with the indigenous communities through the first Benefit Sharing Agreement (BSA) with five indigenous communities, namely the Bidayuh of Kampung Kiding in Padawan, the Lun Bawang of Long Telingan and Long Kerebangan in Lawas and the Kelabit of Pa'Ukat and Pa'Lungan of Bario. The BSA, established in March 2019, broke new ground in creating wealth through alternative socio-economic activities for the participating Indigenous communities, meeting the targets of the Nagoya Protocol on Access and Benefit Sharing.

On behalf of the Sarawak Biodiversity Council, I would like to congratulate SBC's team for its continuous dedication and commitment to propelling SBC, and by extension Sarawak, towards global prominence. I look forward to seeing more exciting events and even greater achievement in the coming years.

A handwritten signature in black ink, appearing to be 'Wilson Baya Dandot', written in a cursive style.

YBhg Tan Sri Datuk Amar Wilson Baya Dandot
Chairman, Sarawak Biodiversity Council

Sarawak Biodiversity Council



YBhg Tan Sri Datuk Amar Wilson Baya Dandot
Chairman, Sarawak Biodiversity Council



YBhg Datu William Patrick Nyigor
Permanent Secretary
Ministry of Education, Science and Technological Research (MESTR)
Deputy Chairman, Sarawak Biodiversity Council



Dr Yeo Tiong Chia
Chief Executive Officer
Sarawak Biodiversity Centre
Secretary, Sarawak Biodiversity Council



Yang Arif Datuk Talat Mahmood bin Abdul Rashid
State Attorney General
Council Member, Sarawak Biodiversity Council



YBhg Datuk Amar Haji Ahmad Tarmizi bin Haji Sulaiman
State Financial Secretary
Council Member, Sarawak Biodiversity Council



YBhg Datu Sr Zaidi bin Haji Mahdi
Permanent Secretary
Ministry of Urban Development and Natural Resources (MUDeNR)
Council Member, Sarawak Biodiversity Council



YBhg Dato Sri Haji Mohamad Abu Bakar bin Marzuki
Deputy State Secretary [Socio-Economic Transformation]
Council Member, Sarawak Biodiversity Council



YBhg Datu Hamden bin Haji Mohammad
Director of Forests
Council Member, Sarawak Biodiversity Council



Dr Alvin Chai Lian Kuet
Acting Director of Agriculture
Council Member, Sarawak Biodiversity Council



Mr Justine Jok Jau Emang
Controller, Natural Resources & Environment Board (NREB)
Council Member, Sarawak Biodiversity Council

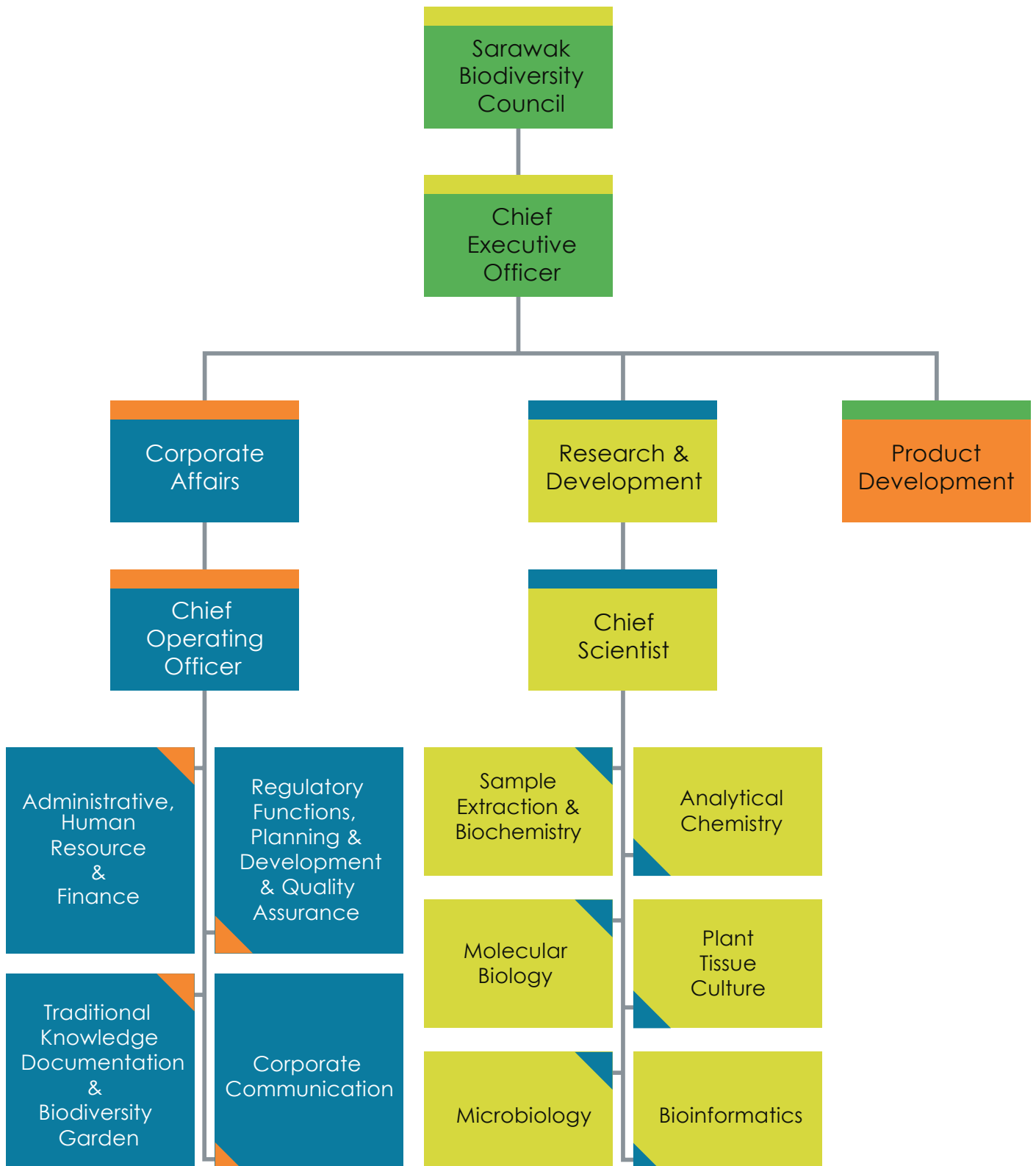


YBhg Dato Goh Leng Chua
Director, Lawmakers
Council Member, Sarawak Biodiversity Council



Mr Graeme Iain Brown
Managing Director, Limar Management Services Sdn Bhd
Council Member, Sarawak Biodiversity Centre

Organisation Structure



The R&D Biodiscovery Programme

SBC's R&D Biodiscovery programme endeavours to decode the richness of Sarawak's biodiversity and to convert these discoveries into a substantial pipeline of commercialised products. Using the breadth of data in the Natural Product Library derived from SBC's Traditional Knowledge Documentation Programme, the R&D Biodiscovery Programme plays a vital role in unlocking for useful applications of these products in healthcare, agriculture and other industries. SBC is equipped with high-end laboratory equipment and an Internet of Things (IoT) - based smart monitoring system.

SBC has built a microalgae library over seven years, and on 27 August 2019 launched its Algae Cultivation Facility. The microalgae library contains over 600 strains of microalgae, collected from various locations within Sarawak including marine and freshwater environments. SBC also continues to expand its collection of plants, microorganisms and natural product extracts. SBC strives to further expand its global footprint in collaborative engagements, with over 80 national and international research organisations, universities, biotech companies, and partners in the areas of cosmeceutical, nutraceutical and pharmaceutical.

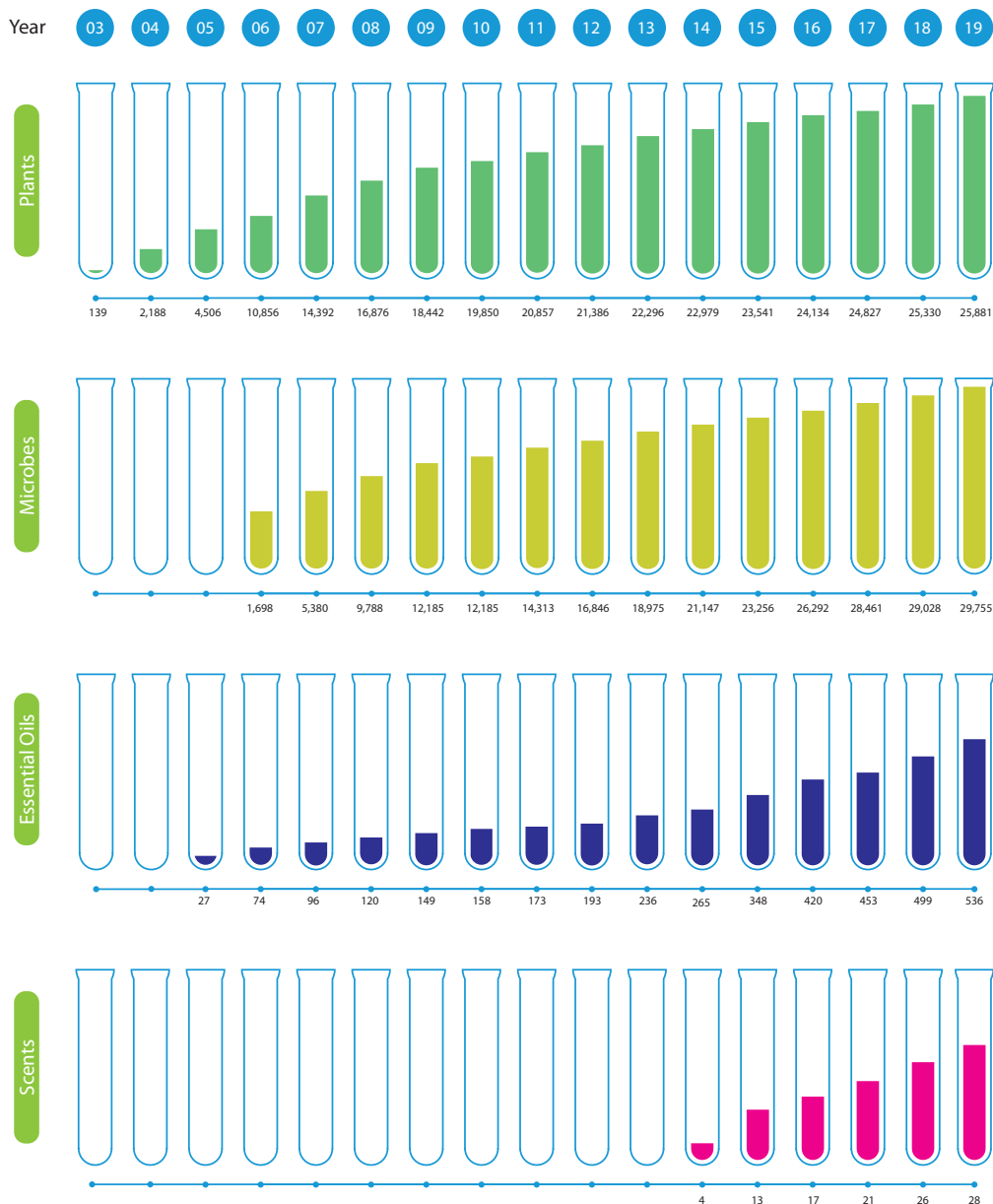


Collection of eluents from fermentation for bioactive compounds recovery

SBC's Natural Product Library—Access to Sarawak's Biodiversity

SBC's Natural Product Library (NPL) was established in 2004. Since then, and through persistent and diligent on-site collection from various locations in Sarawak, the collection has grown in strength and numbers. Currently, SBC's library contains 25,881 assay-ready plant extracts and 29,755 microbial extracts for drug discovery screening and other downstream applications. In addition, the NPL contains 536 essential oils and 28 scents extracted from plants, 653 strains of algae and one metagenomic library. Access to these rich biological resources of Borneo represents an essential resource for researchers and pharmaceutical, cosmeceutical, nutraceutical and biotechnology companies globally.

The NPL plays a significant role in the Traditional Knowledge Documentation Programme via the safekeeping of the Sarawak indigenous communities' invaluable knowledge, particularly on their experience with medicinal and other uses of these precious biological resources. By integrating all this goodness into small, compact, chemical rich barcoded extracts, researchers around the globe no longer need to endure arduous sample collection and extraction work, and effectively eliminate the potential physical and safety hazards that may arise.



Analytical Chemistry Laboratory—Characterizing Sarawak’s Biodiversity

SBC’s Plant Preparation Laboratory is equipped with facilities to generate high quality plant extracts for in-house applications as well as for collaborations. In 2019, the Plant Preparation Laboratory generated 551 new plant extracts, bringing the total number of plant extracts in the NPL to 25,881. The entire sample extraction process is managed using a custom developed BioDiversity Natural Product (BioD NatPro) Information Management System to ensure extraction data are properly captured and securely kept. Extracts produced by the Plant Preparation Laboratory are deposited into the NPL, each one labelled with a unique barcode. These barcodes, scanned into the system, will unlock a variety of information such as the species name, the plant part (s) the extract was obtained from, collection location, extraction method, weight as well as its exact storage location.

The BioD NatPro has further been integrated into a comprehensive Laboratory Information Management System (LIMS) to provide seamless integration between the extract and downstream processes such as scale up of crude extraction and subsequent bioassay guided fractionation and isolation.



SBC’s Natural Product Library

Analytical Chemistry Laboratory—Characterizing Sarawak's Biodiversity

SBC's Analytical Chemistry Laboratory oversees the identification and characterization of bioactive compounds from the NPL extracts, as well as the extraction of highly purified compounds for internal and external Proof of Concept testing.

In 2019, the laboratory continued expanding its collaboration network.

- **Singapore Immunology Network** – isolation of bioactive compounds with anti-malarial and anti-Zika virus properties. Three bioactive compounds for anti-malarial application have been isolated. The laboratory is scaling up the fractionation and isolation processes in order to generate enough compounds for structure elucidation and bioassay testing.
- **Gretals Australia Pty Ltd - Swinburne University of Australia** – identification of plant extracts with potential taste masking and anti-helminthic properties. Potential GLP and GMP facilities have been identified for extraction, preclinical testing, formulation and product development.
- **National University of Singapore** – extraction and isolation of bioactive compounds from six plant candidates with anti-inflammatory properties.
- **University of Macau** - extraction and isolation of bioactive compounds from two plant candidates with anti-epileptic properties.
- **Universiti Malaysia Sarawak** - extraction and isolation of bioactive compounds for treatment of Methicillin-resistant *Staphylococcus aureus* (MRSA) and ocular infections.
- **Toyo Ink SC Holdings Corporation Ltd** – extraction of natural colorants from three plant candidates.

The Analytical Chemistry Laboratory continue to produce two of its lead compounds, silvestrol and epi-silvestrol, at milligram scale for preclinical proof of concept studies. Silvestrol is a structurally unique compound present in *Aglaia foveolata/ stellatopilosa*, a tree belonging to the Mahogany family (Meliaceae). Silvestrol and epi-silvestrol are highly specific and potent inhibitors of the translational RNA helicase eIF4A, with anti-cancer activity.

Recent studies has shown that silvestrol exerts a significant inhibitory effect on eIF4A-dependent translation of viral mRNA from hepatitis E, Chikungunya, Zika and Ebola viruses. These results suggest silvestrol and its analogue have the potential to exert a potent antiviral effect on these viruses and could be developed as therapeutics. A record 377.9 mg of silvestrol and 365.7 mg of epi-silvestrol were isolated under this programme in 2019. One interesting Silvestrol analogue isolated was identified as 2''-episilvestrol which had not been previously reported.



Bruker Impact II Liquid Chromatography Mass Spectroscopy (LCMS) at Analytical Chemistry Laboratory

Two compounds with prolyl Oligopeptidase (POP) inhibitors with potential for the treatment of Neurodegenerative Diseases such as Alzheimer's or Parkinson's were isolated from two fungal strains. Another already known compound with antibiotic, antifungal, antimicrobial and immunoregulatory activities, Semivioxanthin, was isolated from fungal strain F3096. Further novel compound was isolated from the second fungal strain F274. SBC is currently assessing its novelty.

The Analytical Chemistry Laboratory has the core capabilities to support the success of SBC's biodiversity-centred R&D mission through their skilled scientific team and instrumentation. The success of translating research finding into products that can ultimately be commercialized will contribute to the economic growth of the manufacturing sector in Sarawak, and help boost the State's GDP. In addition, translational success will also increase the household income of indigenous communities in Sarawak through the integral role they play in securing the supply of raw materials for research and large scale production purposes.

Microbiology Laboratory—Unlocking Microbial Biodiversity

The Microbiology Laboratory focuses on the isolation of microorganisms from the Sarawak rainforest ecosystem, particularly actinobacteria and fungi, for their potential industrial, healthcare or agricultural applications. In 2019, the team focused on conducting an extensive sampling campaign at Tanjung Datu National Park. The microbes isolated from the samples were identified and tested for antimicrobial activities against various common pathogens such as *Escherichia coli*, *Klebsiella pneumoniae* and *Pseudomonas aeruginosa*.

A total of 727 new microbial extracts were prepared from microbes isolated from the collection from Tanjung Datu National Park, bringing the total number of microbial extracts deposited in the NPL to 29,755. The in-house screening process showed that a total of 16 of the new microbial extracts exhibited narrow spectrum activities (growth inhibitory activities against Gram-negative bacteria, Gram-positive bacteria, yeast or fungi) and another two exhibited broad-spectrum activities (growth inhibitory activities against two or more types of pathogens).



Fermentation using a 10 L fermentor provide powerful mixing, high oxygen transfer capacity, and efficient temperature control, allowing microorganism to grow at optimum performance levels

The Microbiology Laboratory continues to work on production of bioactive compounds with potential for treatment of cognitive diseases, anti-malarial, anti-chikungunya and antimicrobial activities. These projects target to develop natural products with divergent chemical structures and generate novel molecules.

Other ongoing projects in the Microbiology Laboratory include the assessment of natural decomposer from fungi strains for bio-composting applications, and pigment-producing microbes for production of natural colorants to meet industrial demand.



Purification of microbial strains

Molecular Biology Laboratory—Identifying and Characterizing Biodiversity

The Molecular Biology Laboratory focuses on developing assays to screen extracts and compounds from NPL for biological activities such as anti-inflammatory, anti-cancer and anti-proliferative. The selected extracts and compounds are tested against a panel of cancer cell lines for anti-cancer activity, and against normal cell lines for cytotoxicity. In 2019, the laboratory continued to study the anti-inflammatory efficacy of a natural compound, silvestrol and to further characterize its therapeutic potential for inflammatory diseases. These proof of principle studies provided the necessary evidence for moving forward into animal studies. The team also worked on transcriptomic profiling in mammalian cell lines towards silvestrol treatment, thereby providing insight into other therapeutic potentials of silvestrol.

The Molecular Biology Laboratory also provides sequencing platform for SBC for molecular taxonomy for the purpose of species identification and characterization of the collected actinobacteria, fungi, algae and plant samples. In 2019, the laboratory expanded its sequencing capacity with through the acquisition of a Nanopore Technologies MinION to perform whole genome sequencing.



Setting up a Polymerase Chain Reaction experiment

Plant Tissue Culture Laboratory—

A Long-Term Integrated Plan to Propagate Commercial Species for Large Scale Plantation

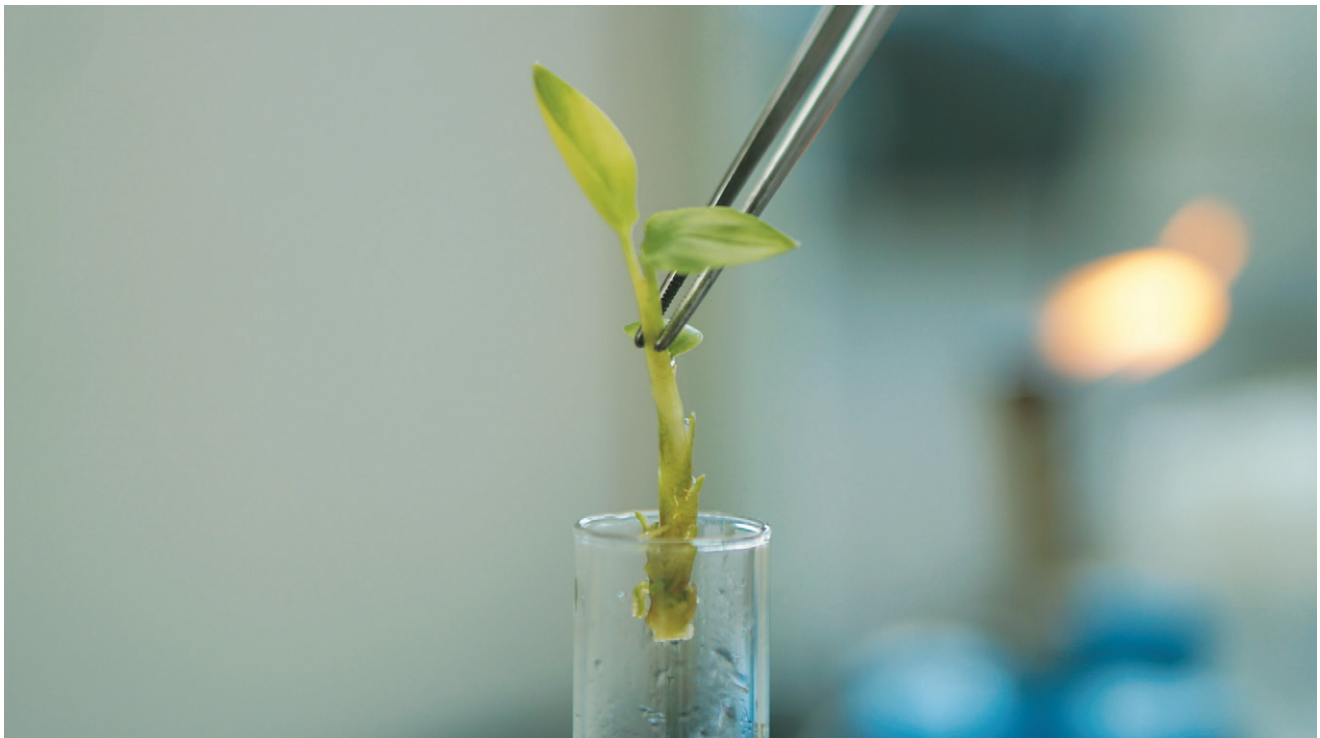
SBC's Plant Tissue Culture Laboratory (PTCL) serves a vital role in the mass propagation of targeted plant species that have commercial potential. Mass propagation of these plant is important to support raw material production and scale-up purposes, paving the way for their development into a variety of products for pharmaceutical, nutraceutical and healthcare applications.

Highlights of 2019 include the establishment of tissue culture protocols and mass propagation processes for *Litsea cubeba* (Pahkak), *Boesenbergia stenophylla* (Jerangau Merah) and *Psychotria sp.* (Engkerabai). Mass propagation of *B. stenophylla* and *Psychotria viridiflora* has resulted in a total of 10,459 and 10,942 subculture plantlets, respectively.



Observation of plants tissue culture plantlets

In addition to plant propagation using plant tissue culture techniques, the laboratory has optimised vegetative propagation method to support raw material production for research and scale-up purposes for several other species. The PTCL manages a one acre pilot scale planting plot at the Agriculture Research Centre (ARC). The purpose of the pilot scale planting plot is to provide proof of concept validation and preliminary data on selected plant species.



Plant sub culturing

The pilot scale cultivation generates enough biomass for the extraction of compounds of interest at analytical levels. Critical data such as bioactivity and yield can be obtained from the pilot scale biomass prior to proceeding with commercial scale production. Pilot scale studies active in 2019 include cultivation of *Cymbopogon nardus* (Serai wangi), *Ocimum sanctum* (Kemangi), *Picria felterrae* (Sipudun), *P. viridiflora* (Engkerabai), *Pogostemon cablin* (Nilam), *Costus speciosus* (Siluk), *Piper sarmentosum* (Kadok) and *L. cubeba* (Pahkak). This information is important for the large-scale plantation of these plants to meet the supply needs for their commercial use in the future.

Product Development—Formulating Biodiversity

In 2019, the Product Development team focused on the extraction of essential oil from aromatic plants and formulation of personal care products. A total of 37 new essential oils were deposited into SBC's NPL by the end of 2019, bringing the total number of essential oils recorded in the library to 536. The chemical composition of the essential oils was analysed using Gas Chromatography Mass Spectrometry (GCMS) and their potential use for personal and healthcare applications identified.



Scent trapping at Mulu National Park by Ellen Tan Chia Min

The Product Development team also focuses on formulation of these oils into new products. Two new LitSara® products (body oil and liquid handwash) were introduced to the market in 2019. Other newly formulated products include a mosquito repellent spray and a body oil which were created by blending different indigenous essential oils. A range of linen sprays and lotions were formulated using reconstructed scents from the NPL.



Range of LitSara® products

Algae Cultivation Facility

Chief Minister Datuk Patinggi (Dr) Abang Johari Tun Datuk Abang Openg launched the largest outdoor Algae Cultivation Facility (ACF) in Southeast Asia on 27 August 2019. The ceremony was witnessed by over 600 guests. The launch of ACF was the result of a successful breakthrough collaboration between Mitsubishi Corporation (MC) and SBC, to move microalgae research a step closer towards commercialization.



Algae Cultivation Facility launched by The Right Honourable, Chief Minister of Sarawak on 27 August 2019

The facility, located in SBC, comprises sixty 24-meter long flat panel Photobioreactor (PBR) units, which cover 1000m² of land. The optimized PBR system utilises a design with high surface area to volume ratio for maximum photosynthetic light absorption to maximize the yield and to minimize the cost of growing the indigenous microalgae strains. The facility is also equipped with a smart monitoring system, powered by the Internet of Things (IoT), allowing real time monitoring of the microalgae growth conditions and notification of any abnormal variations for immediate corrective action.



SBC's Algae Cultivation Facility

As of December 2019, the SBC microalgae library has recorded 653 unique strains isolated from various locations and habitats within Sarawak. This collection of strains with known biotechnology potentials was upscaled in the ACF to further explore its possibilities and commercial value. In 2019, SBC successfully mass-cultured indigenous microalgae from Sarawak at the facility as raw materials for biofuel and testing materials for aquaculture feed at local aquaculture farms.



Algae strains growth observation

Strengthening our Culture of Collaboration

SBC had broadened its biodiscovery into the following areas:

- 1) Food colorant
- 2) Oil palm sap evaluation
- 3) Herbal products for diabetes
- 4) Aquaculture industry – growth of prawns and disease prevention
- 5) Potential epilepsy therapy
- 6) Diabetic foot infection
- 7) Neurodegenerative and autoimmune disorders

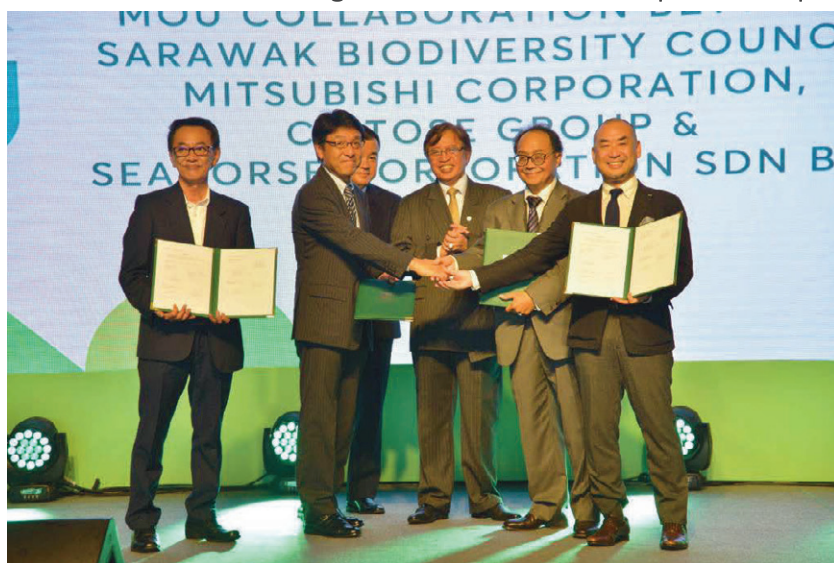
The research collaborations with scientists are governed by Materials Transfer Agreement, Non-Disclosure Agreement and Memorandum of Understanding.

Highlight of the collaborations established in 2019



- 1) **MOU signed between Sarawak Biodiversity Council, Mitsubishi Corporation, CHITOSE Group and Sea Horse Corporation Sdn. Bhd. for testing algae on the growth of prawns and disease prevention**

SBC, Mitsubishi Corporation and CHITOSE group sealed a joint collaboration with Sea Horse Corporation Sdn Bhd for testing algae on commercial prawn aquaculture. The MOU covers three areas; (1) to investigate the use of specific algae strains in methods that will lead to prevention or reduction of diseases in aquaculture, (2) to share the information and data gathered from the investigation to establish protocols for production of aquaculture stocks, and (3) cooperate in research on the use of algae strains to enhance aquaculture production and commercialization.



MOU exchange between Sarawak Biodiversity Council, Mitsubishi Corporation, Chitose Group and Seahorse Corporation Sdn Bhd



ZOE BOTANICALS

NATURALLY BETTER

2. Zoe Botanicals PTE LTD and the Sarawak Biodiversity Council announce partnership to develop herbal products for diabetes

Zoe Botanicals (ZB) and SBC signed a Memorandum of Understanding (MoU) to collaborate on the establishment of a supply chain to provide raw and processed *Lepisanthes alata* (also known as Malay Cherry and Engkilili) plant material from Sarawak to ZB for the production and commercialization of natural health products for the treatment of diabetes. ZB is a phytonutrient company based in Singapore aiming to address global health problems through the use of medicinal plant compounds.



The Chief Minister of Sarawak witnessed the exchange of Memorandum of Understanding between SBC and Zoe Botanicals PTE LTD

Intellectual Property Rights

In 2019, SBC maintained the same number of Intellectual Property Rights (IPRs) that it had in 2018. SBC endeavours to file and register new IPRs in 2020. The existing IPRs registered and maintained by SBC are:

Year	Type	Title
2002	Patent	Therapeutic Compounds & Methods (Patent number US 6,710,075 B2)
2010	Patent	Method for Identification of <i>Aglaia Stellatopilosa</i> (Patent Number WO2012030206A1)
2011	Trademark	LitSara [®] registered under Class 3, 5, 16, 21 and 35
2011	Geographical indication	Sarawak Litsea (GI2011-00001), registered under class 3.
2015	Trademark	Adenosara [®] , registered under class 3, 5, 16 and 35.
2015	Geographical indication	Sarawak Adenosma (GI2015-00018), registered under class 3.
2018	Patent	LitSara [®] related – oral care

Traditional Knowledge Documentation Programme

SBC has carried out Traditional Knowledge (TK) Documentation Workshops in 95 villages and areas (among 20 ethnic communities), and TK Documentation Consultative Meetings in 80 areas in Sarawak since the programme began in 2002. Through these engagements with the communities, 6,436 plants have been collected and documented from 92 locations. 1,328 species have been identified out of the total number of plants collected.



17 ethnic groups in Sarawak involved in Traditional Knowledge Seminar on 6 December 2019 at Harbour View Hotel, Kuching

Table 1: Number of Plants Documented

Community	No	Village/ area	Number of plants documented	Total number of plants documented
Bidayuh	1	Kampung Duyoh, Bung Jagoi, Bau, Kuching	46	1,183
	2	Kampung Kiding, Padawan, Kuching	530	
	3	Kampung Semadang, Penrissen, Kuching	311	
	4	Kampung Semban, Padawan, Kuching	124	
	5	Kampung Serin, Serian	17	
	6	Kampung Lanchang, Serian	59	
	7	Kampung Simuti, Padawan, Kuching	50	
	8	Kampung Chupak & Skuduk, Siburan, Kuching	14	
	9	Kampung Peninjau Baru, Serumbu, Bau, Kuching	16	
	10	Kampung Tringgus, Bau, Kuching	16	
Iban	1	Rumah Skatap, Betong	276	1,467
	2	Rumah Janang (previously known as Rumah Nyambong), Selangau, Sibuan	89	
	3	Rumah Emak, Kapit	89	
	4	Rumah Changai, Song, Kuching	86	
	5	Rumah Simon/ Rumah Baia Panjai, Batang Ai, Lubok Antu, Sri Aman	86	
	6	Rumah Patric (previously known as Rumah Bana), Sebauh, Bintulu	86	
	7	Rumah Roland (previously known as Rumah Lulut), Kapit	55	
	8	Rumah Rapak Tepus, Pantu, Sri Aman	54	
	9	Rumah Bajau, Julau, Sarikei	71	
	10	Rumah Ngumbang, Nanga Sumpa, Batang Ai, Lubok Antu, Sri Aman	32	
	11	Kampung Sual, Simunjan, Samarahan	53	
	12	Ulu Mentawai expedition, Limbang	51	
	13	Rumah Entakong, Nanga Medamit, Limbang	54	

Community	No	Village/ area	Number of plants documented	Total number of plants documented
	14	Rumah Misoon, Sibuti, Miri	45	
	15	Kampung Sungai Rama, Sebuyau, Samarahan	48	
	16	Karangan Mong, Lubok Antu, Sri Aman	33	
	17	Rumah Kino, Ulu Sg Menyang, Lubok Antu, Sri Aman	17	
	18	Rumah Tanjung Baru, Maludam, Betong	16	
	19	Kampung Jambu Kelampak, Ulu Layar, Betong	12	
	20	Rumah Sabang Babang, Krian, Saratok, Sarikei	14	
	21	Rumah Charlie, Nanga Melipis, Kanowit, Sibu	14	
	22	Rumah Abok/ Kampung Mulong, Beluru, Miri	20	
	23	Rumah Encharang, Banting, Lingga, Sri Aman	20	
	24	Kampung Pulau Sibau, Balleh, Kapit	40	
	25	Rumah Nyalong, Pakan, Sarikei	34	
	26	Rumah Tengah (Marcus Minggu), Tinjar, Sg Peking, Tinjar, Miri	17	
	27	Rumah Machup, Roban, Betong	18	
	28	Rumah Kenedy, Beletik Undop, Sri Aman	23	
	29	Kampung Terasi Iban, Sadong Jaya, Samarahan	14	
Kayan	1	Rumah Lesong, Sungai Asap, Belaga, Kapit	81	251
	2	Long Bedian, Baram, Miri	75	
	3	Uma Bawang, Long Lama, Baram, Miri	29	
	4	Long Amo, Belaga, Kapit	66	
Kelabit	1	Pa' Derung, Bario, Miri	12	500
	2	Pa'Lungan, Bario, Miri	303	
	3	Pa'Ukat, Bario, Miri	163	

Community	No	Village/ area	Number of plants documented	Total number of plants documented
	4	Long Lellang, Baram, Miri	22	
Kenyah	1	Long Pelutan, Baram, Miri	127	303
	2	Long Ilang, Marudi, Miri	79	
	3	Long Palai, Baram, Miri	31	
	4	Long Apu, Baram, Miri	14	
	5	Uma Kelep, Sungai Asap, Belaga, Kapit	52	
Lun Bawang	1	Ba' Kelalan, Lawas, Limbang	48	640
	2	Long Kerebangan, Lawas, Limbang	184	
	3	Long Telingan, Lawas, Limbang	120	
	4	Long Sebangang Asal, Lawas, Limbang	49	
	5	Long Tuyoy / Paya Maga Expedition, Lawas, Limbang	137	
	6	Long Tuyoy/ Long Sukang, Lawas, Limbang	59	
	7	Pa' Berunut, Lawas, Limbang	20	
	8	Long Tuan, Trusan, Lawas, Limbang	23	
Melanau	1	Kampung Jebungan, Mukah	96	252
	2	Kampung Pangtray, Daro, Mukah	48	
	3	Kampung Jemoreng, Matu, Mukah	30	
	4	Kampung Paloh, Belawai, Mukah	37	
	5	Igan, Mukah	21	
	6	Kampung Tanam, Dalat, Mukah	20	
Penan	1	Long Iman, Mulu, Marudi, Miri	538	1,112
	2	Batu Bungan, Mulu, Marudi, Miri	452	
	3	Long Latei, Long Bedian, Marudi, Miri	6	
	4	Long Wat, Murum, Bintulu	56	
	5	Long Seridan, Miri	9	
	6	Long Malim, Murum, Bintulu	38	
	7	Long Sayan, Long Lama, Apoh Baram	18	
Punan	1	Rumah Ado, Tatau, Bintulu	39	39

Community	No	Village/ area	Number of plants documented	Total number of plants documented
Selako	1	Kampung Pueh, Sematan, Kuching	112	112
Kedayan	1	Rumah Ajan, Merapok area, Lawas, Limbang (with Iban & Lun Bawang communities)	85	85
Tabun	1	Kampung Kuala Medalam, Nanga Mendamit, Limbang	51	51
Bisaya	1	Kampung Bidang, Limbang	30	30
Malay	1	Sundar, Lawas, Limbang (with Lun Bawang & Chinese)	38	198
	2	Maludam area, Maludam, Betong (with Iban community)	25	
	3	Kampung Hulu, Bako, Kuching	15	
	4	Kampung Hilir, Bako, Kuching		
	5	Sebuyau area, Samarahan	48	
	6	Kampung Pasir Pandak, Santubong, Kuching	28	
	7	Kampung Selabat/ Pasir Putih, Muara Tebas, Kuching	24	
	8	Kampung Bangka Semong, Muara Tuang, Samarahan	20	
Beketan	1	Rumah Seking, Nanga Merit, Kapit	35	35
Sa'ban	1	Long Banga, Marudi, Miri (including expedition)	79	79
Sekapan	1	Kampung Sekapan Piit, Belaga, Kapit	33	33
Tanjong	1	Kampung Man Ili, Kapit	24	24
Tagal	1	Long Tengoa, Lawas	20	20
Berawan	1	Long Terawan, Mulu, Miri	22	22
Total Number of Plants Collected				6,436

In 2019, SBC carried out eight (8) TK Consultative Meetings with the community leaders in the following districts and areas:

No	Date	Location	Community Involved
1	20 Feb 2019	Spaoh Sub-district Office, Betong	Iban
2	27 Feb 2019	Lundu District Office, Kuching	Salako/Sara
3	27 Mar 2019	Belaga District Office, Kapit	Kajang
4	02 Apr 2019	Mulu District Office, Miri	Sebop
5	11 Apr 2019	Oya Sub-district Office, Mukah	Melanau
6	25 Apr 2019	Tebedu Sub-district Office, Serian	Bidayuh
7	09 May 2019	Long Semado Raeh, Long Semadoh, Lawas, Limbang	Lun Bawang
8	14 Aug 2019	Sri Aman District Office, Sri Aman	Iban

SBC conducted seven (7) TK Documentation Workshop in the following areas:

No	Date	Location	Community
1	25-28 Feb 2019	Kampung Tringgus, Bau, Kuching	Bidayuh
2	19-23 Mar 2019	Long Banga, Marudi, Miri	Saban
3	1-4 Apr 2019	Rumah Tengah (Marcus Minggu), Sungai Peking, Tinjar, Miri	Iban
4	8-11 Jul 2019	Rumah Machup, Roban, Betong	Iban
5	15-18 Oct 2019	Rumah Kenedy, Beletik Undop, Sri Aman	Iban
6	21-24 Oct 2019	Kampung Terasi Iban, Sadong Jaya, Samarahan	Iban
7	21-24 Oct 2019	Long Tuan, Trusan, Lawas, Limbang	Lun Bawang

SBC carried out eight (8) follow up trips in the following areas:

No	Date	Location	Community
1	18-21 Mar 2019	Rumah Seking, Nanga Merit, Kapit	Beketan
2	8-11 Apr 2019 & 15-16 Aug 2019	Kampung Karang Mong, Lubok Antu, Sri Aman	Iban
3	23-27 Apr 2019	Kampung Paloh, Belawai, Mukah	Melanau
4	17-20 Jun 2019	Long Tuyo, Lawas, Limbang	Lun Bawang
5	13-16 Aug 2019	Rumah Patric (previously Rh Bana), Sebauh, Bintulu	Iban
6	23-26 Sep 2019	Kampung Sungai Rama, Sebuyau, Samarahan	Iban
7	30 Sep 2019- 3 Oct 2019	Long Ikgang, Marudi, Miri	Kayan
8	30 Sep 2019- 3 Oct 2019	Uma Kelep, Sungai Asap, Belaga, Kapit	Kenyah

SBC also carried out various field programmes under the following projects:

LitSara® Project

The essential oil of *Litsea cubeba* received by SBC are from the following areas:

Village	Quantity of essential oil received (litres)	
	Fruit	Leaf
Pa'Lungan, Bario, Miri	48.459	0
Pa'Ukat, Bario, Miri	27.945	0
Long Telingan, Lawas, Limbang	22.469	0
Long Rusu, Ba'Kelalan, Lawas, Limbang	15.196	0.079
Kampung Kiding, Padawan, Kuching	2.069	6.508
Kampung Jambu Kelampak, Bukit Sadok, Ulu Layar, Betong	0	6.779
Long Kerebangan, Lawas, Limbang	6.126	0.337
Total	122.264	13.703



*Mr Kelvin Kuta Giak from Pa'Ukat, Bario, Sarawak collecting essential oil of *Litsea cubeba**

The follow-up trips for propagation, inventory and hydrodistillation of *Litsea cubeba* training workshops were carried out in the following areas:

No	Date	Location	Community
1	17-19 Feb 2019 & 28-31 Jul 2019	Long Rusu, Ba'Kelalan, Lawas, Limbang	Lun Bawang
2	19-21 Feb 2019 & 6-10 Jun 2019	Long Telingan and Long Kerebangan, Lawas, Limbang	Lun Bawang
3	25-26 Jan 2019 & 11-13 Jun 2019	Kampung Jambu Kelampak, Bukit Sadok, Ulu Layar, Betong	Iban
4	4-8 Mar 2019 & 13-17 May 2019	Pa'Ukat and Pa'Lungan, Bario, Miri	Kelabit
5	13 Mar 2019 & 13-14 Aug 2019	Kampung Kiding, Padawan, Kuching	Bidayuh

Dialogue sessions on the LitSara® Project were carried out with the following communities:

No	Date	Location	Community
1	25-28 Feb 2019	Pa' Berunut, Lawas, Limbang	Lun Bawang
2	24-27 Mar 2019	Long Lellang, Bario, Miri	Kelabit

SBC invited five communities (Long Telingan, Kampung Kiding, Pa'Ukat, Pa'Lungan and Long Kerebangan) to promote LitSara® products during its exhibition at the Rainforest World Musical Festival (RWMF) on 12-14 July 2019.



Communities from Long Telingan, Kampung Kiding, Pa'Ukat, Pa'Lungan and Long Kerebangan at the RWMF 2019

SBC-UNDP Project: “Creating a value chain of raw material supply for animal healthcare and pharmaceutical ingredient from the biological resources in Sarawak through benefit sharing with ethnic communities”

The field trips carried out in 2019 under the SBC-UNDP project are as follows:

- (i) Collection of *Adenosma sp.*

No	Activity	Date
1	Dialog session on Access and Benefit Sharing (ABS) with community	11 Nov 2018
2	Hydro-distillation hands-on training workshop	16 Nov 2018
3	Follow up visits on propagation activities	18 Jan 2019 22 Feb 2019 29 Mar 2019
4	Follow up visits on distillation activities	24 Jan 2019 26 Apr 2019 27 May 2019
5	Follow up visits for the establishment of propagation plot, propagation and distillation activities	22 Feb 2019 9 Aug 2019 30 Aug 2019 23 Sep 2019
6	Site inspection on the construction of distillation shed with JKR	29 Mar 2019
7	Site visits to oversee the construction works of distillation shed and inspection of construction materials with JKR	11 Apr 2019
8	Site visit to check the percentage completion of construction works for distillation shed with JKR	26 Apr 2019 27 May 2019 5 Jul 2019
9	Follow up visits for the establishment of planting beds, propagation and distillation activities by community	9 Aug 2019 30 Aug 2019 23 Sep 2019
10	Follow up visits for the establishment of water sprinkler system at the propagation plot	28 Nov 2019 13 Dec 2019

(ii) Collection of *Daemonorops* spp.

No	Activity	Date
1	Project briefing on plant collection, inventory, propagation and farm establishment at Kampung Semban, Padawan, Kuching	18-21 Feb 2019 18-21 Mar 2019 6-9 May 2019 16 Jul 2019 12-15 Aug 2019 23-26 Sep 2019
2	Project briefing on plant collection, inventory, propagation and farm establishment at Kampung Kiding, Padawan, Kuching	19-22 Feb 2019 15-18 Apr 2019 18-21 Jun 2019 15-18 Jul 2019 19-22 Aug 2019 3-6 Sep 2019
3	Plant inventory and collection at Samunsam Wildlife Sanctuary	4-7 Mar 2019
4	Plant inventory and collection at Long Lellang, Miri	24-27 Mar 2019
5	Plant inventory and collection at Long Sebangang Asal, Lawas, Limbang	1-4 Jul 2019
6	Plant inventory and collection at Long Terawan, Mulu, Miri	30 Sep- 3 Oct 2019



Ladies from the Bidayuh community of Kampung Semadang, Penrissen, Kuching and their collection of the Bunga Ta'ang plant

Laila Taib Ethnobotanical Garden – An Array of Sarawak Indigenous Plants

The Laila Taib Ethnobotanical Garden aims to create awareness about the importance of documenting traditional knowledge of useful indigenous plants in Sarawak. It also provides a site for ex-situ conservation of Sarawak's plant diversity and to generate interest among visitors on the diversity of useful plants found in Sarawak.

The plants featured in the garden represent of flora from 13 different ethnic communities in Sarawak participating in SBC's Traditional Knowledge Documentation Programme. The communities are the Bidayuh, Penan, Iban, Kelabit, Kenyah, Kayan, Lun Bawang, Punan, Bisaya, Selako, Tabun, Melanau and Malay. In 2019, a total of 443 plants, belonging to 87 families and 310 species, were maintained in the garden.

The Garden provides a resource for learning about plant diversity in Sarawak and the importance of documenting Traditional Knowledge. Various schools and corporations visited the garden in 2019. During the tours, visitors are briefed on the importance of documenting useful plants and their benefits such as medicinal, food, rituals, handicrafts and more.



Visit by the Chinese Academy of Tropical Agricultural Science on 13 September 2019

Sarawak Online Research Application System (SORAS)

Sarawak Online Research Application System (SORAS), launched in April 2019, is a portal for research applicants (whether local or foreign researchers) to apply permit to conduct research in Sarawak. SORAS is managed by the Economic Planning Unit (EPU) Sarawak to facilitate (1) submission new applications; (2) evaluation of the applications by the respective approving authority; and (3) monitoring and reporting the application status. The approving authority can keep track on researchers' permit application progress and issue research permit through SORAS.

SBC is one of the state monitoring agencies that adopted SORAS to monitor researcher's progress on the use of biological resources in Sarawak. The other state monitoring agencies utilising the system include Ministry of Urban Development and Natural Resources, the Sarawak Forestry Corporation (SFC), the Economic Planning Unit (EPU), the Department of Agriculture Sarawak (DOA) and the Sarawak Museum Department (SMD).

Biodiversity-Biotechnology Awareness & Appreciation Programme



'Learning from Plants for Green Engineering' by Prof. Ille C. Gebeshuber

The SBC Biodiversity – Biotechnology Awareness and Appreciation programme creates awareness towards the State's rich biodiversity and biotechnology initiatives among the general public and specific target groups such as scientists, researchers, policy makers and business stakeholders.

These initiatives were carried out through activities such as (1) Awareness and Appreciation Visits to SBC by numerous interest groups including schools, universities, NGOs and government departments and agencies; (2) participation in exhibitions; (3) carrying out activities with schools, (4) organizing public talks; and (5) through the SBC's annual flagship event, the Biodiversity Day celebration, held at its premises.

In 2019, the programme organised in the following activities:

No	Activity	No. of Activities Achieved in 2019
1	Awareness & Appreciation Visits (schools/institutions/organizations)	105 Visits
2	Outreach programme on Awareness and Appreciation on Biodiversity and Traditional Knowledge Programme to Schools	6 Schools
3	Public Awareness Talks/Workshops	10 Public talks 1 Career talk
4	Participation in Exhibitions	14 Exhibitions (6 International and 8 National/Local)
5	Press Releases / Articles / Features	26 Articles 3 Broadcasts
6	Participation in School Programmes	3 Programmes
7	Biodiversity Day in Conjunction with International Day for Biological Diversity	1 Event



Science enculturation starts at an early age – children from Smart Reader Kids are enthralled by science shows at SBC

Highlight Events

Sarawak Biodiversity Centre seals country's first Benefit Sharing Agreement (BSA) with five indigenous communities

Date: 20 March 2019

Venue: Sarawak Biodiversity Centre

SBC became the first organisation in Malaysia to implement the Nagoya Protocol on Access and Benefit Sharing Agreement. The agreement was signed between Sarawak Biodiversity Council and five participating native communities - the Bidayuh of Kpg Kiding, Padawan; the Lun Bawang of Long Telingan and Long Kerebangan, Lawas; and the Kelabits of Pa'Ukat and Pa'Lungan under the LitSara® project. Present at the ceremony were SBC Chairman Tan Sri Datuk Amar Wilson Baya Dandot, SBC Chief Executive Officer Dr Yeo Tiong Chia and representatives from the five indigenous communities.



Benefit Sharing Agreement Signing Ceremony between the Sarawak Biodiversity Council and the five participating communities in the project

Biodiversity Day in Conjunction with International Day for Biological Diversity 2019

On 4 May 2019, the Biodiversity Day was celebrated with the theme “Our Biodiversity, Our Food, Our Health”, highlighting food and health as key catalysts to promote healthy livelihood. The event is observed worldwide on 22 May each year with different theme to address the issues and challenges in Biodiversity. The event, held at SBC, aimed at creating an awareness and appreciation of the dependency of our food systems, nutrition and health on biodiversity and highlighted SBC’s role in sustainable research and development of Sarawak’s biological resources.



Students participating in the hands-on activities at Plant Tissue Culture section

Various interactive science-themed activities, such as Microalgae; Breakthrough to Excellence, The Chemistry of Biodiversity, Scent and Wellness, Science in Your Everyday Life, Microbes Around Us, Together We Culture for a Greener World, were carried out. SBC’s Traditional Knowledge team also showcased Learning Plants Structures, Zoological and Herbarium display, Wisdom of Traditional Knowledge, photobooth with various displays of local fruits and plants. The exhibition also highlighted traditional food and crafts from the indigenous communities of Iban, Bagatan, Salako, Tagal, Lun Bawang, Kenyah, Saban, and the Penan.

The one-day event attracted 1,301 visitors from schools and members of the public. Agencies such as CRAUN Research Sdn Bhd, Sarawak Forestry Corporation, Forest Department Sarawak and Wildlife Conservation Society (WCS) also participated in the event.



Hands-on activities making DIY bag from coloured stamps of plants

SBC's participation at the Rainforest World Music Festival (RWMF) 2019

Venue: Sarawak Culture Village

Date: 12-14 July 2019

SBC was invited to participate as an exhibitor at the internationally renowned Rainforest World Music Festival (RWMF) held at the Sarawak Cultural Village in Santubong, for the 3rd year running. The RWMF, won the "Malaysia Iconic Event Award" in 2019. SBC, along with the indigenous communities involved in LitSara[®] project, promoted its signature brand LitSara[®] and showcased a new product line extension for LitSara[®] products: Liquid Handwash and Body Oil. The indigenous communities that took part in the event were the Bidayuh of Kampung Kiding, Kelabit of Pa'Lungan and Pa'Ukat, and the Lun Bawang of Long Telingan and Long Kerebangan.



SBC's booth received overwhelming response by the festivalgoers.

SBC's booth themed 'Wild Scents of Borneo', showcased a range of sweet and enticing scents derived from indigenous plants. The festivalgoers enjoyed an olfactory experience with SBC's array of wild and aromatic scents. Other activities included Traditional Herbal Native Hut, DIY Aromatherapy, DIY Natural Wild Potpourri, Foot Booster session and the Rainforest Basin. Daily winners of the best selfies and reviews of LitSara® products were rewarded with interesting prizes. SBC received positive feedback and exceptional response in all activities during the three-day event.



The rainforest basin was one of the most popular stations at the booth

Sarawak-Singapore Business Forum and Expo and Memorandum of Understanding exchanges between SBC and Zoe Botanicals PTE LTD, Suntec Convention and Exhibition Singapore, 16 August 2019

Sarawak – Singapore Business Forum and Expo 2019 was held on 16 August 2019 at Suntec Singapore Convention & Exhibition Centre, Singapore. The event, officiated by the Chief Minister of Sarawak, was the State’s strategic economic approach to introduce Sarawak’s products and services to the world via Singapore. The objectives of the event were (1) to explore new markets and business opportunities between Sarawak and Singapore; (2) to promote and to enhance international trade and e-commerce; (3) to provide an alternative platform for exchanging ideas and finding solutions to economic and investment challenges for companies; and (4) to provide an avenue for government officials, senior executives, business leaders and all key stakeholders from Sarawak and Singapore to connect and network.



The Right Honourable Chief Minister of Sarawak visited SBC’s booth

SBC and its collaborator, together with Zoe Botanicals PTE LTD, participated in the one-day expo which featured 86 exhibitors from Sarawak, displaying various products and services such as food and beverages, crafts, tourism, and education. Most of the delegates were business representatives and government officials from Sarawak and Singapore.

The Chief Minister of Sarawak witnessed the exchange of Memorandum of Understanding between SBC and Zoe Botanicals PTE LTD, paving the way for future collaboration between the two parties. The collaboration involved the provision of raw and processed *Lepisanthes Alata* (Engkilili) for the production and commercialisation of natural health products to treat diabetes.

Spartan Ultra Race, 19 October 2019, Semenggoh, via SBC's North and South Trail

The world's #1 toughest obstacle course race, the Spartan Ultra Race, organized by the MUSE group and the Kuching Fitness Association, was held in Semenggoh for the first time on Oct 19, 2019. The inaugural race flagged-off at the Leadership Institute of Sarawak Civil Service and raced through SBC's North and South trails. Twenty of SBC's staff volunteered as marshals along both trails. The other venues include the Rajah Charles Brooke Memorial Hospital and the Semenggoh Wildlife Centre.



Spartan Ultra participant at South Trail

SBC Experiential Biodiversity Learning Expedition 2019

Sarawak is a haven full of scenic and natural landscapes and home to various species of flora and fauna that never fail to amaze outdoor enthusiasts. SBC Sport Club and Public Awareness section organised six Experiential Biodiversity Learning Expeditions for the staff and internship students. These activities were designed to get participants to appreciate the biodiversity of flora and fauna in Sarawak, to identify interesting plants and animals for educational and awareness purposes as well as to improve the physical health and overall fitness of SBC's staff.



SBC's team reached at the summit of Bung Jagoi

The list of expedition venues:

No	Venue	Date
1	Semban Waterfall, Padawan	9 March 2019
2	Kubah National Park, Matang	27 April 2019
3	Gunung Gading National Park, Lundu	29 June 2019
4	Bako National Park, Kuching	20 July 2019
5	Mount Santubong, Kuching	19 October 2019
6	Bung Jagoi, Bau	23 November 2019



Striking a pose at the summit of Mount Santubong

SBC 21st Anniversary Celebration Dinner

Theme: Towards Global Prominence

Venue: The Pullman Hotel, Kuching

Date: 5 December 2019

SBC celebrated its 21st anniversary at The Pullman Hotel, Kuching with the launch of its Journey Book —21 years in discovery and innovation in Biodiversity.

The event was graced by Dato Sri Micheal Manyin Jawong, Minister for Education, Science and Technological Research, Sarawak on behalf of the Chief Minister of Sarawak, The Right Honourable Datuk Patinggi (Dr) Abang Haji Abdul Rahman Zohari bin Tun Datuk Abang Haji Openg. The celebration, dedicated to its stakeholders and staff, showcased the exciting journey undertaken since SBC's establishment and highlighted the milestones achieved for the State.



YB Dato Sri Michael Manyin cutting the special anniversary cake as SBC turns 21

SBC's journey would not have been possible without the dedication and commitment of past and present staff, the stewardship of past chief executive officers, the unflinching support of past and present Chairmen and Council Members and the strong support of industry partners, agencies and the indigenous communities of Sarawak.



Group photo of SBC's staff

The celebration culminated with the sealing of a time capsule and the launching of SBC's Journey Book by Dato Sri Michael Manyin, to commemorate SBC's mission towards global prominence as it leverages on the commercial potentials of its research breakthroughs. The event was witnessed by dignitaries from state, federal and international agencies as well as key representatives from local and international industry partners.



service staff and Certificate of Achievement for staff without sick leave

Bioindustrial Park and Bioprocess Commercial Centre

A hundred acres of land in Kota Samarahan was approved by Sarawak Government for the establishment of the BioIndustrial Park and BioProcess Commercial Centre. The Park is expected to be one of biotechnology driven economies in Sarawak with an estimated completion date in 2023 for its 1st Phase. The Park is strategically located within the Kota Samarahan Commercial Centre with close proximity to the Agricultural Product Collection Centre. The Park's locality is further enhanced with surrounding knowledge-based institutes such as UNIMAS and UITM, access to talented local workforce, highly organized IT driven facilities, advanced biotechnology laboratories and comprehensive legal framework. The Park will offer bio-business incentives to attract high net-worth local and foreign bio-business partners.

The main objective of the establishment of the Park is to foster the economic growth of bio-businesses in Sarawak which aligns with the Sarawak Government's vision to move beyond traditional industries and to diversify the source of income for Sarawak. Being one of the richest and oldest biodiversity hotspots in the world makes Sarawak a suitable place for researchers and investors in bio-based industries to spearhead the development of biodiversity from the jungle to the lab to the global market.



Proposed site for Bio-industrial Park and SBC Bioprocess Commercial Centre

The Park will house bio-based industries which focus on marketable innovation products such as functional foods and pharmaceutical products derived from Sarawak's biological resources. The creation of these new bio-businesses will promote innovation and technology advancement in Sarawak as well as generate over 1000 employment opportunities, with a potential to contribute to 1% of Sarawak's GDP.

The Park anticipates to break ground by next year and be fully operational for Phase 1 in three years. This Park will become a flagship of bio-business industries in Sarawak as well as in ASEAN countries.

Achievements

Certificate of Achievement for three consecutive years without sick leave at SBC from 2017 to 2019

1. Ainley anak Tumis
2. Alan anak Ringah
3. Barbara anak Ngikoh@Nyikoh
4. Bee David anak Lamada
5. Gilbert Lau Sei Kung
6. Hafizah binti Booty
7. Lee Jong Jen
8. Margarita Naming
9. Mohamad Nasar bin Pawi
10. Rosy anak Tian Lin
11. Sabda bin Safiee
12. Sunarjo bin Suip

Certificate of Achievement for ten consecutive years without sick leave at SBC from 2010 to 2019

1. Margarita Naming

Sijil Anugerah Perkhidmatan Cemerlang Tahun 2019 (APC)

1. Jamilah binti Hassan
2. Arlene Alicia anak Toaiang
3. Bernadine Ida anak Joseph Jinam
4. Barbara anak Ngikoh @ Nyikoh
5. Katrina binti Aslan Joe
6. Anna Ng Mei Na
7. Melvin George Rut
8. Elsa Isla Jong
9. Fazariah binti Kipali

Sijil Penghargaan Perkhidmatan Cemerlang Tahun 2019

1. Wong Hie Ping
2. Margarita Naming
3. Arzie binti Ramli
4. Nuraqilah binti Othman
5. Sunarjo bin Suip
6. Siti Muhaini binti Haris Fadzillah
7. Ellen Tan Chia Min
8. Selwynn anak Jaci Edward
9. Van Mc Queen anak Thomas
10. Mariani binti Omarzuki @Marzuki
11. Rosy anak Tian Lin
12. Lucy Noraini Mitis
13. Chew Leh King
14. Rigep anak Anyain
15. Bernard anak Jerome
16. Freddie Ambrose Ambol
17. Tora anak Ranggon
18. Annie Anthoney Empra
19. Ng Yik Han
20. Asma' Saiyidatina Aishah binti Abdul Rahman
21. Hanas anak Harry Ranip
22. Diana Lim Siok Ley
23. Dayang Syahreeny binti Abang Mustafa
24. Aziman Ahmad
25. Frankie anak Kumbak
26. Gabriel Chang
27. Mounsey Muskie anak Moding
28. Harny anak Chapi
29. Ajuwin anak Lain
30. Hugh anak Doyos
31. Alan anak Ringah
32. Clare Heinzie anak Juhin
33. Elizabeth Alice anak Gabriel Nasib
34. Mohd Fadeli Haironi bin Jemat
35. Mohamad Nasar bin Pawi

Records of Sarawak Biodiversity Council, SBC Establishment Committee, SBC Finance and Investment Committee and SBC Audit Committee Meeting 2019

No	Type of Meeting	Frequency
1	Sarawak Biodiversity Council	7
2	SBC Establishment Committee	4
3	SBC Finance & Investment Committee	4
4	SBC Audit Committee Meeting	3



SBC Council Members 2019

SBC Audit Committee 2019



Mr John Kennedy Janang

Director, Financial Compliance Unit, State Financial Secretary's Office
Chairman, SBC Audit Committee



Dr Alvin Chai Lian Kuet
Acting Director of Agriculture
Member, SBC Audit Committee



Mr Justine Jok Jau Emang

Controller, Natural Resources & Environment Board (NREB)
Member, SBC Audit Committee



Ms Christina Wong Hie Ping
Accountant, Sarawak Biodiversity Centre
Secretary, SBC Audit Committee

SBC Establishment Committee 2019



YBhg Dato Sri Haji Mohamad Abu Bakar bin Marzuki
Deputy State Secretary [Socio-Economic Transformation]
Chairman, SBC Establishment Committee

YBhg Dato Sr Zaidi bin Haji Mahdi
Permanent Secretary

Ministry of Urban Development and Natural Resources (MUDeNR)
Member, SBC Establishment Committee



YBhg Dr Alvin Chai Lian Kuet
Director of Agriculture
Member, SBC Establishment Committee

Tuan Haji Ismail bin Mohamad Hanis
Director of State Human Resource Unit
Member, SBC Establishment Committee



Dr Yeo Tiong Chia
Chief Executive Officer
Sarawak Biodiversity Centre
Secretary, SBC Establishment Committee

SBC Finance and Investment Committee 2019



YBhg Dato Sri Ahmad Tarmizi bin Haji Sulaiman
State Financial Secretary
Chairman, SBC Finance and Investment Committee



YBhg Dato William Patrick Nyigor
Permanent Secretary
Ministry of Education, Science and Technological Research (MESTR)
Member, SBC Finance and Investment Committee



YBhg Dato Hamden bin Haji Mohammad
Director of Forests
Member, SBC Finance and Investment Committee



Dr Alvin Chai Lian Kuet
Acting Director of Agriculture
Member, SBC Finance and Investment Committee



Dr Yeo Tiong Chia
Chief Executive Officer
Sarawak Biodiversity Centre
Secretary, SBC Finance and Investment Committee

Financial Statement for the Year Ended 2019

**MAJLIS KEPELBAGAIAN BIOLOGI
SARAWAK**

**Penyata Kewangan
Bagi Tahun Berakhir
31 Disember 2019**

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SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

COUNCIL MEMBERS

- Chairman : YB Datuk Amar Jaul Samion (appointed on 26 March 2020)
YBhg Tan Sri Datuk Amar Wilson Baya Dandot (ceased on 28 February 2020)
- Deputy Chairman : Permanent Secretary, Ministry of Education, Science and Technological Research Sarawak
Mr Kameri Haji Affandi (appointed 2 January 2020)
YBhg Datu William Patrick Nyigor (ceased 31 December 2019)
- Secretary : Chief Executive Officer, Sarawak Biodiversity Centre
YBrs Dr Yeo Tiong Chia
- Council Members : State Attorney General, Sarawak
Yang Arif Datuk Talat Mahmood Bin Abdul Rashid
- : State Financial Secretary, Sarawak
YBhg Datuk Amar Haji Ahmad Tarmizi Bin Haji Sulaiman
- : Permanent Secretary, Ministry of Urban Development and Natural Resources Sarawak
YBhg Datu Sr Zaidi Bin Haji Mahdi (appointed on 17 September 2019)
YBhg Datu Dr Haji Wan Lizozman Bin Wan Omar (ceased on 16 September 2019)
- : Deputy State Secretary (SET), Sarawak
YBhg Datu Haji Mohamad Abu Bakar Bin Marzuki
- : Director, Department of Agriculture, Sarawak
YBrs Dr Alvin Chai Lian Kuet
- : Director, Department of Forest, Sarawak
YBhg Datu Hamden Bin Mohammad
- : Controller of Environmental Quality Sarawak, Natural Resources and Environment Board
Mr Justine Jok Jau Emang
- : YBhg Dato Goh Leng Chua (appointed 1 March 2019)
- : Mr Graeme Iain Brown (appointed 1 March 2019 and ceased on 28 February 2020)
- : Dr Avijit Roy (appointed 21 November 2019)
- : YBhg Prof. Datu Dr Andrew Kiyu Dawie (appointed on 26 March 2020)

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

OFFICER AND PROFESSIONAL ADVISORS

Chief Executive Officer	: Dr Yeo Tiong Chia
Registered office	: Lot 724 Block 3, Sentah-Segu Land District KM 20 Jalan Borneo Heights Semengoh, Locked Bag No. 3032 93990 Kuching Sarawak
Auditor	: Ketua Audit Negara Malaysia
Bankers	: Malayan Banking Berhad Level 1, Wisma Satok Jalan Satok 93400 Kuching Sarawak
	: RHB Bank Berhad Jalan Kulas 93400 Kuching Sarawak
	: Public Bank Berhad 384-388, Sentosa Central, Batu 7 Jalan Penrissen 93250 Kuching Sarawak

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

PENYATA Pengerusi dan Timbalan Pengerusi

Kami, **YB DATUK AMAR JAUL SAMION** dan **ENCIK KAMERI HAJI AFFANDI** yang merupakan Pengerusi dan Timbalan Pengerusi **MAJLIS KEPELBAGAIAN BIOLOGI SARAWAK** dengan ini menyatakan bahawa, pada pendapat Ahli - Ahli Majlis, Penyata Kewangan yang mengandungi Penyata Kedudukan Kewangan, Penyata Pendapatan Komprehensif, Penyata Perubahan Ekuiti dan Penyata Aliran Tunai yang berikut ini berserta dengan nota-nota kepada Penyata Kewangan di dalamnya, adalah disediakan untuk menunjukkan pandangan yang benar dan saksama berkenaan kedudukan **MAJLIS KEPELBAGAIAN BIOLOGI SARAWAK** pada **31 DISEMBER 2019** dan hasil kendaliannya serta perubahan kedudukan kewangannya bagi tahun yang berakhir pada tarikh tersebut.

Bagi pihak Majlis,



.....
YB DATUK AMAR JAUL SAMION

Bagi pihak Majlis,



.....
ENCIK KAMERI HAJI AFFANDI

Tarikh: 13.7.2020

Kuching

Tarikh: 6-7-2020

Kuching

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

**PENGAKUAN OLEH PEGAWAI UTAMA YANG BERTANGGUNGJAWAB
KE ATAS PENGURUSAN KEWANGAN
MAJLIS KEPELBAGAIAN BIOLOGI SARAWAK**

Saya, DR YEO TIONG CHIA, pegawai utama yang bertanggungjawab ke atas pengurusan kewangan dan rekod-rekod perakaunan **MAJLIS KEPELBAGAIAN BIOLOGI SARAWAK**, dengan ikhlasnya mengakui bahawa Penyata Kedudukan Kewangan, Penyata Pendapatan Komprehensif, Penyata Perubahan Ekuiti dan Penyata Aliran Tunai dalam kedudukan kewangan yang berikut ini berserta dengan nota-nota kepada Penyata Kewangan di dalamnya, mengikut sebaik-baik pengetahuan dan kepercayaan saya, adalah betul dan saya membuat ikrar ini dengan sebenarnya mempercayai bahawa ianya adalah benar dan atas kehendak-kehendak Akta Akuan Berkanun, 1960.



Sebenar dan sesungguhnya)
diakui oleh penama di atas)
di KUCHING, SARAWAK)
pada haribulan..... **03 JUL 2020**

DR YEO TIONG CHIA
(K.P. NO.: 660420-13-5379)

Di hadapan saya

MAGISTRATE

**GREGORY ANAK WILFRED UKIK
SECOND CLASS MAGISTRATE
(In and for The State of Sarawak)**



**SIJIL KETUA AUDIT NEGARA
MENGENAI PENYATA KEWANGAN
MAJLIS KEPELBAGAIAN BIOLOGI SARAWAK
BAGI TAHUN BERAKHIR 31 DISEMBER 2019**

Sijil Mengenai Pengauditan Penyata Kewangan

Pendapat

Penyata Kewangan Majlis Kepelbagaian Biologi Sarawak yang merangkumi Penyata Kedudukan Kewangan pada 31 Disember 2019 dan Penyata Pendapatan Komprehensif, Penyata Perubahan Ekuiti serta Penyata Aliran Tunai bagi tahun berakhir pada tarikh tersebut, ringkasan polisi perakaunan yang signifikan dan nota kepada penyata kewangan seperti yang dinyatakan pada muka surat 9 hingga 27 telah diaudit wakil saya.

Pada pendapat saya, penyata kewangan ini memberikan gambaran yang benar dan saksama mengenai kedudukan kewangan Majlis Kepelbagaian Biologi Sarawak pada 31 Disember 2019 dan prestasi kewangan serta aliran tunai bagi tahun berakhir pada tarikh tersebut selaras dengan Piawaian Pelaporan Entiti Persendirian Malaysia (MPERS) dan *The Statutory Bodies (Financial and Accounting Procedure) Ordinance, 1995* serta *The Sarawak Biodiversity Centre Ordinance, 1997*.

Asas Kepada Pendapat

Pengauditan telah dilaksanakan berdasarkan Akta Audit 1957 dan *International Standards of Supreme Audit Institutions*. Tanggungjawab saya dihuraikan selanjutnya di perenggan Tanggungjawab Juruaudit Terhadap Pengauditan Penyata Kewangan dalam sijil ini. Saya percaya bahawa bukti audit yang diperoleh adalah mencukupi dan bersesuaian untuk dijadikan asas kepada pendapat saya.

Kebebasan dan Tanggungjawab Etika Lain

Saya adalah bebas daripada Majlis Kepelbagaian Biologi Sarawak dan telah memenuhi tanggungjawab etika lain berdasarkan *International Standards of Supreme Audit Institutions*.

Maklumat Lain Selain Daripada Penyata Kewangan dan Sijil Juruaudit Mengenainya

Ahli Majlis Kepelbagaian Biologi Sarawak bertanggungjawab terhadap maklumat lain dalam Laporan Tahunan. Pendapat saya terhadap Penyata Kewangan Majlis Kepelbagaian Biologi Sarawak tidak meliputi maklumat lain selain daripada Penyata Kewangan dan Sijil Juruaudit mengenainya dan saya tidak menyatakan sebarang bentuk kesimpulan jaminan mengenainya.

Tanggungjawab Ahli Majlis Terhadap Penyata Kewangan

Ahli Majlis bertanggungjawab terhadap penyediaan penyata kewangan Majlis Kepelbagaian Biologi Sarawak yang memberi gambaran benar dan saksama selaras dengan Piawaian Pelaporan Entiti Persendirian Malaysia (MPERS) dan *The Statutory Bodies (Financial and Accounting Procedure) Ordinance, 1995* serta *The Sarawak Biodiversity Centre Ordinance, 1997*. Ahli Majlis juga bertanggungjawab terhadap penetapan kawalan dalaman yang perlu bagi membolehkan penyediaan Penyata Kewangan Majlis Kepelbagaian Biologi Sarawak yang bebas daripada salah nyata yang ketara sama ada disebabkan fraud atau kesilapan.

Semasa penyediaan Penyata Kewangan Majlis Kepelbagaian Biologi Sarawak, Ahli Majlis bertanggungjawab untuk menilai keupayaan Majlis Kepelbagaian Biologi Sarawak untuk beroperasi sebagai satu usaha berterusan, mendedahkannya jika berkaitan serta menggunakannya sebagai asas perakaunan.

Tanggungjawab Juruaudit Terhadap Pengauditan Penyata Kewangan

Objektif saya adalah untuk memperoleh keyakinan yang munasabah sama ada Penyata Kewangan Majlis Kepelbagaian Biologi Sarawak secara keseluruhannya adalah bebas daripada salah nyata yang ketara, sama ada disebabkan fraud atau kesilapan, dan mengeluarkan Sijil Juruaudit yang merangkumi pendapat saya. Jaminan yang munasabah adalah satu tahap jaminan yang tinggi, tetapi bukan satu jaminan bahawa audit yang dijalankan mengikut *International Standards of Supreme Audit Institutions* akan sentiasa mengesan salah nyata yang ketara apabila ia wujud. Salah nyata boleh wujud daripada fraud atau kesilapan dan dianggap ketara sama ada secara individu atau agregat sekiranya

boleh dijangkakan dengan munasabah untuk mempengaruhi keputusan ekonomi yang dibuat oleh pengguna berdasarkan penyata kewangan ini.

Sebagai sebahagian daripada pengauditan mengikut *International Standards of Supreme Audit Institutions*, saya menggunakan pertimbangan profesional dan mengekalkan keraguan profesional sepanjang pengauditan. Saya juga:

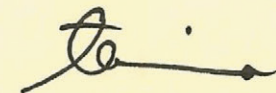
- a. Mengetahui pasti dan menilai risiko salah nyata ketara dalam penyata kewangan Majlis Kepelbagaian Biologi Sarawak, sama ada disebabkan fraud atau kesilapan, merangka dan melaksanakan prosedur audit yang responsif terhadap risiko berkenaan serta mendapatkan bukti audit yang mencukupi dan bersesuaian untuk memberikan asas kepada pendapat saya. Risiko untuk tidak mengesan salah nyata ketara akibat daripada fraud adalah lebih tinggi daripada kesilapan, kerana fraud mungkin melibatkan pakatan, pemalsuan, ketinggalan yang disengajakan, representasi yang salah, atau mengatasi kawalan dalaman.
- b. Memahami kawalan dalaman yang relevan untuk merangka prosedur audit yang bersesuaian tetapi bukan untuk menyatakan pendapat mengenai keberkesanan kawalan dalaman Majlis Kepelbagaian Biologi Sarawak.
- c. Menilai kesesuaian dasar perakaunan yang diguna pakai, kemunasabahan anggaran perakaunan dan pendedahan yang berkaitan oleh Ahli Majlis.
- d. Membuat kesimpulan terhadap kesesuaian penggunaan asas perakaunan untuk usaha berterusan oleh Ahli Majlis dan berdasarkan bukti audit yang diperolehi, sama ada wujudnya ketidakpastian ketara yang berkaitan dengan peristiwa atau keadaan yang mungkin menimbulkan keraguan yang signifikan terhadap keupayaan Majlis Kepelbagaian Biologi Sarawak sebagai satu usaha berterusan. Jika saya membuat kesimpulan bahawa ketidakpastian ketara wujud, saya perlu melaporkan dalam Sijil Juruaudit terhadap pendedahan yang berkaitan dalam Penyata Kewangan Majlis Kepelbagaian Biologi Sarawak atau, jika pendedahan tersebut tidak mencukupi, pendapat saya akan diubah. Kesimpulan saya dibuat berdasarkan bukti audit yang diperolehi sehingga tarikh Sijil Juruaudit.
- e. Menilai sama ada keseluruhan persembahan termasuk pendedahan Penyata Kewangan Majlis Kepelbagaian Biologi Sarawak memberi gambaran yang saksama.

Hal-hal Lain

Sijil ini dibuat untuk Ahli Majlis berdasarkan *The Statutory Bodies (Financial and Accounting Procedure) Ordinance, 1995* serta *The Sarawak Biodiversity Centre Ordinance, 1997* dan bukan untuk tujuan lain. Saya tidak bertanggungjawab terhadap pihak lain bagi kandungan sijil ini.

10/9/2020

Thomas Anak Paul Bilun
Ketua Audit Negara
Malaysia



(THOMAS ANAK PAUL BILUN)
b.p. KETUA AUDIT NEGARA
MALAYSIA

KUCHING

TARIKH: 10 SEPTEMBER 2020



Thomas Anak Paul Bilun
Ketua Audit Negara
Malaysia

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

**STATEMENT OF FINANCIAL POSITION
AS AT 31 DECEMBER 2019**

NON-CURRENT ASSET			
Property, plant and equipment	4	19,663,407	21,036,080
CURRENT ASSETS			
Trade and other receivables	5	853,063	917,817
Cash and cash equivalents	6	27,114,605	25,594,800
Total current assets		27,967,668	26,512,617
TOTAL ASSETS		47,631,075	47,548,697
EQUITY			
Retained Surplus	7	32,514,248	37,959,007
NON-CURRENT LIABILITY			
Provision for retirement benefits	8	81,852	80,321
CURRENT LIABILITIES			
Development funds	9	13,975,920	9,264,072
Other payables and accruals	10	1,016,277	222,366
Provision for retirement benefits	8	12,452	8,914
Tax payable	11	30,326	14,017
Total current liabilities		15,034,975	9,509,369
TOTAL LIABILITIES		15,116,827	9,589,690
TOTAL EQUITY AND LIABILITIES		47,631,075	47,548,697

The accompanying notes on pages 70 to 84 form an integral part of the financial statements.

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

**STATEMENT OF COMPREHENSIVE INCOME
FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2019**

	Note	2019 RM	2018 RM
Revenue	12	1,307,234	3,507,022
Government grants	13	7,412,259	9,253,438
		<u>8,719,493</u>	<u>12,760,460</u>
Staff costs	14	(8,432,837)	(7,540,017)
Depreciation of property, plant and equipment	4	(3,279,481)	(2,946,585)
Other operating expenses	15	(2,212,944)	(1,648,478)
(Deficit)/Surplus before tax		(5,205,769)	625,380
Tax expense	11	(238,990)	(227,825)
(Deficit)/Surplus for the financial year		<u>(5,444,759)</u>	<u>397,555</u>

The accompanying notes on pages 70 to 84 form an integral part of the financial statements.

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

**STATEMENT OF CHANGES IN EQUITY
FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2019**

	Note	Retained Surplus RM
Balance as at 1 January 2018		37,561,452
Surplus for the financial year		397,555
Balance as at 31 December 2018		<u>37,959,007</u>
Deficit for the financial year		(5,444,759)
Balance as at 31 December 2019	7	<u><u>32,514,248</u></u>

The accompanying notes on pages 70 to 84 form an integral part of the financial statements.

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

STATEMENT OF CASH FLOWS
FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2019

	Note	2019 RM	2018 RM
CASH FLOW FROM OPERATING ACTIVITIES			
(Deficit)/Surplus before tax		(5,205,769)	625,380
Adjustments for the items not involving the movements of cash and cash equivalents			
Development grant		(1,412,259)	(3,253,438)
Development funds	9	-	(2,383,364)
Depreciation of property, plant and equipment	4	3,279,481	2,946,585
Interest income	12	(995,891)	(949,270)
Provision for retirement benefits	8	13,983	89,235
Gain on disposal of property, plant and equipment		(4)	(27,758)
Property, plant and equipment written-off		7	127,110
Operating deficit before changes in working capital		(4,320,452)	(2,825,520)
Decrease/(Increase) in trade and other receivables		59,042	(220,074)
Increase/(Decrease) in other payables and accruals		793,911	(566,505)
Cash used in operations		(3,467,499)	(3,612,099)
Refirement benefits paid	8	(8,914)	-
Income tax paid	11	(227,825)	(226,060)
Income tax refunded	11	5,144	2,719
Net cash used in operating activities		(3,699,094)	(3,835,440)
CASH FLOW FROM INVESTING ACTIVITIES			
Purchase of property, plant and equipment		(1,906,829)	(3,450,046)
Proceed from disposal of property, plant and equipment		18	27,760
Development grant received	9	10,970,134	4,928,957
Development expenditure	9	(4,846,027)	(3,858,295)
Interest received		1,001,603	741,493
Placement of fixed deposits with maturity terms more than 3 months		(10,981,537)	(24,709,482)
Withdrawal of of fixed deposits with maturity terms more than 3 months		11,451,037	23,233,055
Net cash generated from/(used in) investing activities		5,688,399	(3,086,558)
Net increase/(decrease) in cash and cash equivalents		1,989,305	(6,921,998)
Cash and cash equivalents at beginning of the year		1,594,800	8,516,798
Cash and cash equivalents at end of the year	6	3,584,105	1,594,800

The accompanying notes on pages 70 to 84 form an integral part of the financial statements.

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

**NOTES TO THE FINANCIAL STATEMENTS
FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2019**

1. GENERAL INFORMATION

The registered address and principal place of business for Sarawak Biodiversity Council (Council) is Lot 724 Block 3, Sentah-Segu Land District, KM 20 Jalan Borneo Heights, Semengoh, Locked Bag No. 3032, 93990 Kuching, Sarawak.

The Council a body incorporated in accordance with the Sarawak Biodiversity Centre Ordinance, 1997 (Chapter 24, Laws of Sarawak), is a Sarawak State Government – owned statutory body and its vision is “Enriching lives with breakthrough innovations in Biodiversity”.

Since then, two amendments; i.e. Sarawak Biodiversity Centre (Amendment) Ordinance 2003 [Chapter A106, Laws of Sarawak] and the Sarawak Biodiversity Centre (Amendment) Ordinance 2014 [Chapter A163, Laws of Sarawak] came into force on 1 April 2004 and 1 June 2015 respectively. SBC is now entrusted with the following statutory functions:

- conduct bioprospecting/R&D Programme on the biodiversity of the State and maintain a library of extracts for R&D;
- implement the Traditional Knowledge Documentation Programme among the traditional communities in the State;
- provides facilities for research and development;
- establish linkages and partnerships to undertake research and development;
- to promote education and knowledge of biodiversity of the State;
- establish and maintain a database on information related to the biological resources of the State;
- implement Prior Informed Consent (PIC) to ensure benefit sharing with the ethnic communities of Sarawak when traditional knowledge associated with a biological resource is accessed and benefits are shared through mutually agreed terms.

The functional currency of the Council is Ringgit Malaysia (“RM”).

2. SIGNIFICANT ACCOUNTING POLICIES

The financial statements of the Council have been prepared in accordance with the Malaysian Private Entities Reporting Standard (“MPERS”), Statutory Bodies (Financial and Accounting Procedure) Ordinance 1995 and Treasury Instructions.

(a) Basis of preparation

The financial statements are prepared using cost bases and fair value bases.

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

**NOTES TO THE FINANCIAL STATEMENTS
FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2019**

2. SIGNIFICANT ACCOUNTING POLICIES (CONT'D)

(b) Property, plant and equipment

The cost of an item of property, plant and equipment is recognised as an asset when it is probable that future economic benefits associated with the item will flow to the Council and the cost of the item can be measured reliably. After recognition as an asset, all items of property, plant and equipment are measured at cost less any accumulated depreciation and any accumulated impairment losses. Depreciation is provided on a straight-line method so as to write off the depreciable amount of the following assets over their estimated useful lives. The rates of depreciation are as follows: -

• Buildings	5% p.a.
• Office equipment	15% p.a.
• Furniture, fixture and fittings	10% p.a.
• Computers and accessories	20% p.a.
• Office renovation	10% p.a.
• Motor vehicles	20% p.a.
• Specialised equipment (equipment)	15% p.a.
• Specialised equipment (computer)	20% p.a.
• Specialised equipment (software)	20% p.a.
• Temporary office	10% p.a.
• Nursery sheds	10% p.a.
• Lab specialised equipment	15% p.a.
• Lab furniture and fittings	10% p.a.

Depreciation of an asset begins when it is ready for its intended use. Fully depreciated assets are retained in the financial statements until they are no longer in use.

The gain or loss arising from the disposal or retirement of an item of property, plant and equipment is determined as the differences between the sale proceeds and the carrying amount of the asset and is recognised in profit or loss.

(c) Operating grant

Grant received from the State Government for the operation or maintenance of the Council's activities and is credited statement of comprehensive income.

Grants that compensate the Council for operating expenses incurred are recognised as income over the periods necessary to match the grant on a systematic basis to the costs that it is intended to compensate.

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

**NOTES TO THE FINANCIAL STATEMENTS
FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2019**

2. SIGNIFICANT ACCOUNTING POLICIES (CONT'D)

(d) Development grant

The Council receives Development Grants from the State Government in order to finance activities and projects related to biodiversity research and development protection. This is in line with the functions and powers of the Council, as provided by the Sarawak Biodiversity Centre Ordinance, 1997. The grants so received are credited to the Development Grants and offset against future costs when incurred.

Government grants that do not impose specified future performance conditions are measured at the fair value of the assets received or receivable and recognised in income when the grant proceeds are receivable.

Government grants that impose specified future performance conditions are recognised at their fair value in income only when the performance conditions are met.

Government grants received before the revenue recognition criteria are satisfied are recognised as a liability.

(e) Impairment of assets

Property, plant and equipment are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of the asset may not be recoverable. Whenever the carrying amount of an asset exceeds its recoverable amount, an impairment loss is recognised in profit and loss for items property, plant and equipment carried at cost. The recoverable amount is the higher of an asset's net selling price and value in use. The net selling price is the amount obtainable from the sale of an asset in an arm's length transaction.

Value in use is the present value of estimated future cash flows expected to arise from the continuing use of an asset and from its disposal at the end of its useful life. Recoverable amounts are estimated for individual assets or, if it is not possible, for the cash-generating unit.

Reversal of an impairment loss recognised in prior years is recorded when there is an indication that the impairment loss recognised for an asset no longer exists or has decreased. The reversal is recorded in profit or loss or as a revaluation increase.

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

**NOTES TO THE FINANCIAL STATEMENTS
FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2019**

2. SIGNIFICANT ACCOUNTING POLICIES (CONT'D)

(f) Employee benefits

(i) Short-term benefits

Wages, salaries, bonuses and social security contributions are recognised as expenses in the year in which employees of the Council render the associated services. Short-term accumulating compensated, such as paid annual leave are recognised when services rendered by employees that increases their entitlement to future compensated absences; and short-term non-accumulating compensated absences; such as sick leave are recognised when the absences occur.

(ii) Long-term benefits

Long-terms benefits recognised as accruals is for the *Gantian Cuti Rehat* (GCR) that is based on the accumulated leave for an employee until it reaches a maximum of 150 days before compulsory retirement. The present value of the current basic salary at a discount factor of 3.3% had been applied for the calculation of the liability.

(iii) Defined contribution plan

The Council's contribution to defined contribution plans is charged to the statement of comprehensive income in the period in which they relate. Once the contributions have been paid, the Council has no further payment obligations.

As required by law, the Council makes contributions to the Employee Provident Fund (EPF). Such contributions are recognised as an expense in the statement of comprehensive income as incurred.

(g) Financial assets and liabilities

Financial assets and liabilities are recognised in the statement of financial position when the Council has become a party to the contractual provisions of the instrument. The particular recognition methods are dissolved below:-

(i) Other receivables

Other receivables are carried at anticipated realisable value. Bad debts are written off when identified. An estimate is made for doubtful debts based on review of all outstanding accounts as at the reporting date.

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

**NOTES TO THE FINANCIAL STATEMENTS
FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2019**

2. SIGNIFICANT ACCOUNTING POLICIES (CONT'D)

(g) Financial assets and liabilities (cont'd)

(ii) Other payables

Other payables are stated at cost, which is fair value of the consideration paid in the future for goods and services received.

(h) Revenue recognition

Revenue is measured at the fair value of the consideration received or receivable, net of any trade discounts and indirect taxes applicable to the revenue. Revenue is recognised in profit or loss when it is probable that the economic benefits associated with transaction will flow to the Council and the amount of the revenue can be measured reliably.

- Interest revenue is recognised using the effective interest method.
- Other income is recognised at the point of receipt or sales by the Council.

(i) Research and development

Research and development expenditure comprised deferred direct project costs and related overheads incurred for projects ranging from 2 to 30 years. These research and development expenditures are recognised as expenses when the research and development are completed.

(j) Cash and cash equivalents

Cash and cash equivalents in the statement of cash flows comprise cash and bank balances, short-term bank deposits with original maturity periods of three (3) months or less and other short-term, highly liquid investments which are readily convertible to cash and which are subjected to an insignificant risk of changes in value.

(k) Provisions

Provisions are recognised when there is a present obligation, legal or constructive, as a result of a past event, when it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation. Provisions are reviewed at each reporting date and adjusted to reflect the current best estimate.

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
Chapter 24, Laws of Sarawak)

**NOTES TO THE FINANCIAL STATEMENTS
FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2019**

**3. CRITICAL ACCOUNTING JUDGEMENTS AND KEY SOURCES OF ESTIMATION
UNCERTAINTY**

(a) Critical judgments in applying the accounting policies

The judgments, apart from those involving estimations described below, that the management has made in the process of applying the accounting policies and that have the most significant effect on the amounts recognised in the financial statements are as follows:

(i) Fair value of financial assets and liabilities

The fair value for certain other financial assets and financial liabilities are obtained from the quoted price in an active market, if quoted prices are unavailable, the price of a recent transaction for an identical financial assets or liabilities provides evidence of fair value as long as there has not been a significant change in economic circumstances or a significant lapse of the time since the transaction took place.

(b) Key sources of estimation uncertainty

The key assumptions concerning the future, and other key sources of estimation uncertainty at the reporting date, that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year, other are as follows:

(i) Change of estimated useful lives for property, plant and equipment

The Council reviews the estimated useful lives of property, plant and equipment annually.

(ii) Impairment loss of property, plant and equipment

The Council's property, plant and equipment comprise a significant portion of the Council's total assets.

Changes in technology or industry conditions may cause the estimated period of use or the value of these assets to change. Long-lived assets including property, plant and equipment are reviewed for impairment at least annually or whenever events or changes in circumstances have indicated that their carrying amounts may not be recoverable. If any such indication exists, the recoverable amount is estimated.

SARAWAK BIODIVERSITY COUNCIL
(Incorporated under The Sarawak Biodiversity Centre Ordinance 1997
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**NOTES TO THE FINANCIAL STATEMENTS
FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2019**

**3. CRITICAL ACCOUNTING JUDGEMENTS AND KEY SOURCES OF ESTIMATION
UNCERTAINTY (CONT'D)**

(b) Key sources of estimation uncertainty (cont'd)

(ii) Impairment loss of property, plant and equipment (cont'd)

The recoverable amount of an asset is the greater of its fair value less costs to sell and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value using a pretax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset, which requires significant judgment relating to level of revenue and amount of operating costs. The Council uses all readily available information in determining an amount that is a reasonable approximation of the value in use, including estimates based on reasonable and supportable assumptions and projections of revenue and operating costs. Changes in these estimates could have a significant impact on the carrying value of the assets and could result in additional impairment charge or reversal of impairment in future periods.

(iii) Provision for retirement benefits

Long-term benefits recognised as accruals is for the *Gantian Cuti Rehat* (GCR) that is based on the accumulated leave for an employee until it reaches a maximum of 150 days before compulsory retirement. The present value of the current basic salary at a discount factor of 3.3% had been applied for the calculation of the provision.

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4. Property, plant and equipment

2019	Buildings RM	Office equipment RM	Furniture, fixtures and fittings RM	Computers and accessories RM	Office renovations RM	Motor vehicles RM	Specialised equipment RM	Temporary office RM	Nursery sheds RM	Lab specialised equipment RM	Lab furniture and fittings RM	Total RM
Cost												
At 1 January 2019	17,202,081	1,014,903	1,049,623	2,195,576	584,209	993,788	109,780	372,473	94,068	19,081,874	721,490	43,419,865
Additions	77,350	11,116	-	215,343	-	274,410	-	-	-	1,328,610	-	1,906,829
Disposal	-	(4,860)	-	(28,064)	-	-	-	-	-	-	-	(32,924)
Write-off	-	(4,730)	-	(6,810)	-	-	(3,250)	-	-	(1,013)	-	(15,803)
At 31 December 2019	17,279,431	1,016,429	1,049,623	2,376,045	584,209	1,268,198	106,530	372,473	94,068	20,409,471	721,490	45,277,967
Accumulated Depreciation												
At 1 January 2019	5,444,087	716,415	546,008	1,420,778	527,877	632,866	109,743	372,472	78,962	11,896,901	637,676	22,383,785
Charge	873,497	78,069	88,576	224,455	11,307	158,448	-	-	8,407	1,821,960	14,762	3,279,481
Disposal	-	(4,859)	-	(28,051)	-	-	-	-	-	-	-	(32,910)
Write-off	-	(4,728)	-	(6,807)	-	-	(3,249)	-	-	(1,012)	-	(15,796)
At 31 December 2019	6,317,584	784,897	634,584	1,610,375	539,184	791,314	106,494	372,472	87,369	13,717,849	652,438	25,614,560
Carrying amounts	10,961,847	231,532	415,039	765,670	45,025	476,884	36	1	6,699	6,691,622	69,052	19,663,407

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4. Property, plant and equipment (cont'd)

2018	Buildings RM	Office equipment RM	Furniture, fixtures and fittings RM	Computers and accessories RM	Office renovations RM	Motor vehicles RM	Specialised equipment RM	Temporary office RM	Nursery sheds RM	Lab specialised equipment RM	Lab furniture and fittings RM	Total RM
Cost												
At 1 January 2018	16,278,159	1,057,803	1,047,736	2,188,907	584,209	994,153	109,780	372,473	94,068	16,930,987	648,170	40,306,445
Additions	923,922	2,000	1,887	6,669	-	186,052	-	-	-	2,256,196	73,320	3,450,046
Disposal	-	-	-	-	-	(186,417)	-	-	-	-	-	(186,417)
Write-off	-	(44,900)	-	-	-	-	-	-	-	(105,309)	-	(150,209)
At 31 December 2018	17,202,081	1,014,903	1,049,623	2,195,576	584,209	993,788	109,780	372,473	94,068	19,081,874	721,490	43,419,865
Accumulated Depreciation												
At 1 January 2018	4,632,005	641,297	457,360	1,201,676	514,318	707,575	109,743	372,472	70,555	10,315,044	624,669	19,646,714
Charge	812,082	83,537	88,648	219,102	13,559	111,706	-	-	8,407	1,596,537	13,007	2,946,585
Disposal	-	-	-	-	-	(186,415)	-	-	-	-	-	(186,415)
Write-off	-	(8,419)	-	-	-	-	-	-	-	(14,680)	-	(23,099)
At 31 December 2018	5,444,087	716,415	546,008	1,420,778	527,877	632,866	109,743	372,472	78,962	11,896,901	637,676	22,383,785
Carrying amounts	11,757,994	298,488	503,615	774,798	56,332	360,922	37	1	15,106	7,184,973	83,814	21,036,080

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5. Trade and other receivables

	2019	2018
	RM	RM
Trade receivables	108,772	14,833
Other receivables	67,696	220,675
Interest receivables	676,595	682,309
	<u>853,063</u>	<u>917,817</u>

6. Cash and cash equivalents

	2019	2018
	RM	RM
Cash and bank balances	3,584,105	1,594,800
Fixed deposits	23,530,500	24,000,000
	<u>27,114,605</u>	<u>25,594,800</u>

Fixed deposits with licensed banks of the Council at the end of the reporting period and having maturity periods of twelve (12) months bore effective interest rates ranging from 3.90% to 4.10% (2018: 4.05% to 4.10%).

Cash and cash equivalents include the following items for the purpose of the statement of the cash flows:

	2019	2018
	RM	RM
Cash and cash equivalents	27,114,605	25,594,800
Less: Fixed deposits with maturity terms more than 3 months	<u>(23,530,500)</u>	<u>(24,000,000)</u>
	<u>3,584,105</u>	<u>1,594,800</u>

7. Retained surplus

	2019	2018
	RM	RM
Balance as at 1 January	37,959,007	37,561,452
(Deficit)/Surplus for the financial year	<u>(5,444,759)</u>	<u>397,555</u>
Balance as at 31 December	<u>32,514,248</u>	<u>37,959,007</u>

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8. Provision for retirement benefits

	2019	2018
	RM	RM
Balance as at 1 January	89,235	-
Payment for the year	(8,914)	-
Provision for retirement benefits during the year	13,983	89,235
Balance as at 31 December	<u>94,304</u>	<u>89,235</u>
	2019	2018
	RM	RM
Current provision for retirement benefits	12,452	8,914
Non-current provision for retirement benefits	81,852	80,321
	<u>94,304</u>	<u>89,235</u>

9. Development funds

	2019	2018
	RM	RM
Balance as at 1 January	9,264,072	13,830,212
Received during the year	10,970,134	4,928,957
Amortised during the year	(1,412,259)	(3,253,438)
Offset against development expenses	(4,846,027)	(3,858,295)
Recognised as income	-	(2,383,364)
Balance as at 31 December	<u>13,975,920</u>	<u>9,264,072</u>

Development funds comprise of grants received from the Sarawak Government and collaborators for the purpose of research and development.

10. Other payables and accruals

	2019	2018
	RM	RM
Other payables	774,572	190,602
Accruals	241,705	31,764
	<u>1,016,277</u>	<u>222,366</u>

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11. Tax payable/Taxation

In exercising the powers under Section 127(3)(b) of Income Tax Act 1967, YB Menteri Kewangan Malaysia had made a new order: **Income Tax (Exemption) (No.22) Order 2006 [P.U. (A) 207 @ 01 June 2006]**. This order is applicable to Sarawak Biodiversity Council where the Minister had exempted:

- (a) any person from the payment of income tax in respect of income relating to the allocations given by the Federal or State Government in the form of grant or subsidy; and
- (b) a statutory body from the payment of income tax in respect of income derived from:
 - (i) the income received in respect of an amount chargeable and collectible from any person in accordance with the provisions of the Act regulating the statutory authority; or
 - (ii) any donations or contribution received.

This Order shall have effect from the Year of Assessment 2006. Income Tax (Exemption) (No.17) Order 1995 [P.U. (A) 213/1995] and Income Tax (Exemption) (No.4) Order 2003 [P.U. (A) 33/2003] are revoked from the Year of Assessment 2006.

The provision for taxation is made based on the fixed deposit interest income only.

	2019	2018
	RM	RM
Balance at 1 January	14,017	9,533
Current year provision	238,990	227,825
Tax paid	(227,825)	(226,060)
Tax refunded	5,144	2,719
Balance at 31 December	<u>30,326</u>	<u>14,017</u>

12. Revenue

	2019	2018
	RM	RM
Fixed deposit interest income	995,891	949,270
Development fund	-	2,383,364
Tender document fees	11,100	5,850
Gain on disposal of property, plant and equipment	4	27,758
Sales of products	75,485	88,492
Other income	224,754	52,288
	<u>1,307,234</u>	<u>3,507,022</u>

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13. Government grants

	2019	2018
	RM	RM
Operating grant	6,000,000	6,000,000
Amortisation of Development grant	1,412,259	3,253,438
	<u>7,412,259</u>	<u>9,253,438</u>

The operating grant received from State Government is mainly for operating expenditures. The development grant is recognised for the cost of property, plant and equipment capitalised for the year.

14. Staff costs

	2019	2018
	RM	RM
Personnel emolument	6,784,143	6,011,331
Provision for retirement benefits	13,983	89,235
Staff incentives	164,137	144,868
EPF	876,709	760,939
SOCSO	73,874	71,233
Overtime	93,063	85,583
Transport and travelling	264,397	242,235
Medical expenses	116,433	111,032
Staff uniform	46,098	23,561
	<u>8,432,837</u>	<u>7,540,017</u>
Number of staff	<u>119</u>	<u>97</u>

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15. Other operating expenses

	2019	2018
	RM	RM
Advertisement	15,192	32,004
Audit fees	8,045	7,650
Bank charges	1,862	2,067
Computer and accessories	312,502	86,284
Consultancy fees	73,190	25,610
Conference and seminar fees	60,835	30,120
Council Members' allowance and sitting fees	153,067	131,500
Electricity charges	294,366	316,673
Entertainment	109,348	58,766
Fuel and lubricant	26,409	20,904
Human resource development expenses	31,370	132,992
Lab consumables	122,458	72,355
Lab maintenance	50,899	12,195
Indigenous Knowledge Benefit Sharing	7,549	14,482
Insurance	60,387	59,353
Motor vehicles road tax	1,838	1,392
Newspapers and magazines	96,667	16,106
Office expenses	235,136	224,444
Postage and courier	10,459	12,641
Property, plant and equipment written-off	7	127,110
Printing and stationery	67,029	18,979
Repairs and maintenance - building	412,595	191,597
Repairs and maintenance - motor vehicles	11,268	14,406
Telecommunication and internet charges	28,946	29,401
Unclaimable good and services tax (GST)	-	298
Water charges	21,520	9,149
	<u>2,212,944</u>	<u>1,648,478</u>

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16. Capital commitments

Approved capital expenditure and contracted for in the financial statements as at 31 December 2019 is RM2.19 million (2018: RM1.08 million).

17. Comparative figures

The following figure have been reclassified to conform to the current year's presentation:-

	As restated RM	As previously stated RM
<u>Statement of cash flows</u>		
Increase in trade and other receivables	(220,074)	(427,851)
Purchase of property, plant and equipment	(3,450,046)	(196,608)
Development expenditure	(3,858,295)	(7,111,733)
Interest received	741,493	1,001,603
Placement of fixed deposits with maturity terms more than 3 months	(24,709,482)	-
Withdrawal of fixed deposits with maturity terms more than 3 months	23,233,055	-
Cash and cash equivalents at beginning of the year	8,516,798	31,040,371
Cash and cash equivalents at end of the year	<u>1,594,800</u>	<u>25,594,800</u>

18. Authorisation for issue of the financial statements

The financial statements of the Sarawak Biodiversity Council (Council) were authorised for issue by the Council Members via Circular Resolution 16/2020 approved on 25 June 2020.

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