



GAMUDA PARKS

A SUSTAINABLE LANDSCAPE INITIATIVE

GAMUDA GARDENS

SUMMARY OF BIODIVERSITY ASSESSMENT FOR GAMUDA GARDENS, SUNGAI BULOH



09.2018

OWNERSHIP OF :

GAMUDA LAND

PREPARED BY :



EXECUTIVE SUMMARY

EnviroSolutions & Consulting Sdn Bhd (ESC) - partner of Inogen Environmental Alliance - has been engaged by Bandar Serai Development Sdn Bhd (subsidiary of Gamuda Land) to conduct a Biodiversity Assessment as to support Gamuda Land's objective to ascertain the level of biodiversity in their developments and identify ways to increase/enhance biodiversity in the area moving forward. This Biodiversity Assessment provides the baseline study in which the report will illustrate current site conditions in which current biodiversity is identified and where species recovery/retention rate can be monitored.

The aims of the study are as follows:

- Verification of surrounding flora types and conditions (through secondary data and site study of surrounding area);
- Identification of existing wildlife in the area;
- Develop a checklist of the surveyed vertebrates (mammals, birds, amphibians, and reptiles). Insects that were found during the survey are also described in the checklist as additional information to the scope of work;
- Propose strategies and measures that will restore the health of the area which will fortuitously stabilise and encourage positive return of fauna to the area; and
- Develop a Biodiversity Management Plan on tracking wildlife recovery and restitution rate for the area.

To facilitate the above, ESC conducted The Biodiversity Assessment consists of two main components, namely:

- Field assessment – a survey of the flora and fauna components of the subject site, and
- Data review and assessment.

As this assessment forms the baseline data for future studies, a full flora and fauna survey of the site was undertaken in April and May 2018. The Project site was previously planted with rubber trees, oil palm and fruit trees, whilst the surrounding areas are dominated by agricultural lands for example oil palm and rubber trees. Summary of the biodiversity assessment and its management plan are as follow:

Flora Assessment

Flora survey was conducted on the 5th April 2018 and 24th May 2018 to assess the existing land use of the Project site and to determine the flora composition including undergrowth and non-woody species. A line transect method was used to determine the flora species. A total of 11 sampling points was established during the survey.

Based on the site survey, the Project site is dominated by secondary forest and Acacia wildings as well as undergrowth vegetation such as ferns and coarse grasses. A total of 8 species were recorded within the sampling plots while 42 species were found along the line transect.

Based on the survey conducted and IUCN Red List, most of the species were not categorised as rare, endangered, threatened or endemic species except for *Pterocarpus indicus* or commonly known as Angsana which was categorised as *Vulnerable* by IUCN and the *Dyopsis lutescens* or also known as Golden Cane Palm categorised as *Near Threatened*.

Fauna Assessment

The sampling and inventories of fauna species at the project site was conducted on 25th and 27th April 2018. The species were observed and recorded via binoculars, animal calling, identification of footprints, nests, scats and faeces. Survey for these species were carried out from day to night (0730 hours until 2230 hours) at different points within and beyond the project boundary.

Fauna survey conducted at Gamuda Gardens found various species ranging from mammals, birds to insects and herpetofauna.

1 INTRODUCTION

1.1 Background

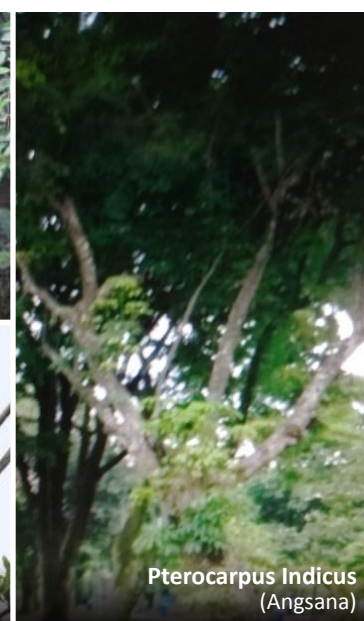
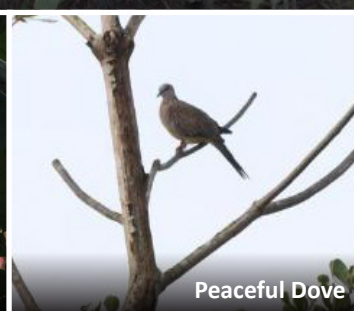
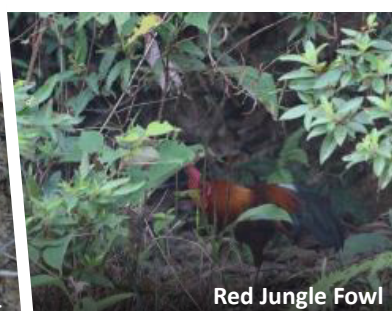
Gamuda Gardens is an 810-acre township in Kuang, Selangor developed with the principle of sustainable township, in harmony with nature. It is situated in Kuang, Mukim Rawang, District of Gombak, Selangor, and is approximately 30 kilometres northwest of Kuala Lumpur City Centre. As part of the township development, a 50-acre park is planned within its central valley which will include 5 cascading retention ponds and a constructed wetland as the main feature. Construction has started on the site by the time this Biodiversity Assessment commenced.

Gamuda Land aims to conserve and enhance biodiversity as well as raise awareness of the importance of wildlife and ecosystems. EnviroSolutions & Consulting Sdn Bhd (ESC) - partner of Inogen Environmental Alliance - has been engaged by Bandar Serai Development Sdn Bhd (subsidiary of Gamuda Land) to conduct a Biodiversity Assessment as part of this initiative. Biodiversity was defined by the United Nation Earth Summit in 1992 as “the variability among living organisms from all sources, including, inter alia, terrestrial, marine and other aquatic ecosystems, and the ecological complexes of which they are part: this includes diversity within species, between species and of ecosystems.” This Biodiversity Assessment provides the baseline study in which the report will illustrate current site conditions in which current biodiversity is identified and where species recovery/ retention rate can be monitored over a regular period of time.

Gamuda Land aims to conserve and enhance biodiversity as well as raise awareness of the importance of wildlife and ecosystems. EnviroSolutions & Consulting Sdn Bhd (ESC) - partner of Inogen Environmental Alliance - has been engaged by Bandar Serai Development Sdn Bhd (subsidiary of Gamuda Land) to conduct a Biodiversity Assessment as part of this initiative. Biodiversity was defined by the United Nation Earth Summit in 1992 as “the variability among living organisms from all sources, including, inter alia, terrestrial, marine and other aquatic ecosystems, and the ecological complexes of which they are part: this includes diversity within species, between species and of ecosystems.” This Biodiversity Assessment provides the baseline study in which the report will illustrate current site conditions in which current biodiversity is identified and where species recovery/ retention rate can be monitored over a regular period of time. The results from these regular surveys will determine how well the built environment is sustained.



Flora & Fauna Found On Site		
Flora		95 species
Fauna	Birds	59 species
	Mammals	12 species
	Insects	30 species
	Reptiles	8 species



FLORA SAMPLING LOCATION WITHIN GAMUDA GARDENS BOUNDARY



FLORA SPECIES THAT ARE SIGHTED IN GAMUDA GARDENS



FAUNA SAMPLING LOCATION WITHIN GAMUDA GARDENS BOUNDARY



FAUNA SPECIES THAT ARE SIGHTED IN GAMUDA GARDENS

