



F.G.P Inspection & Certification (Pvt) Ltd.
CERTIFICATE

For
Biomass (Total Base Load Carbon as at 2nd February 2009
Issued to:

Alpha & Omega Developers (Pvt) Ltd.

102/3, Dharmapala Mawatha, Colombo 3, Sri Lanka

Samples measured on 623 acres (252 hectares) of Primary, Secondary, Riparian and Savana Forest situated at Dadayampola Road, Dadayampola Village, Thiruwanakanda, Beragala, Sri Lanka

Licensee No: FGPICSL011

A physical verification of the Total Biomass (Base Load) Carbon was conducted in accordance with the measurements for Carbon Base Load as set out in the International Standards for Forest Garden Products (FGP), using the specified measurement criteria set out by:

The International Analog Forestry Network (IAFN), Costa Rica

The measurements made on the data provided of this project, mentioned in the annex of this certificate are found to be in **Compliance with the standards for:**

Voluntary Carbon Standard
<http://www.v-c-s.org>

The Gold Standard
<http://www.cdmgoldstandard.org>


Deva Vikrantha
Certifier


Mr. Gayan Wijesiriwardena
International Inspector

Mr Rasitha Niroshana
Assistant Inspector

Signed on behalf of:

F.G.P Inspection & Certification (Pvt) Ltd.

Dates of inspection:

31 January to 2 February 2009

Date of certification: 12 March 2009

Certificate Validity: 12 March 2010

This certificate is issued based on the inspection findings of the inspection report Number: FGP IC SL011 Code FGP.2009.01

This certificate and the Annexes to this certificate are valid until the date mentioned therein unless it is withdrawn as a result of a violation of the standards or the conditions laid down by F.G.P Inspection & Certification (Pvt) Ltd. and/ or replacement with a new certificate for

Biomass (Total Base Load Carbon) in the current period or Incremental Carbon as measured at the next inspection

F.G.P Inspection & Certification Pvt. Ltd.

Accredited by

THE INTERNATIONAL ANALOG FORESTRY NETWORK, COSTA RICA



IAFN Accreditation Number: C01A

Annex 1

1. Audit Data

1.1 Land Location:

The forest land is situated in Dadayampola Road, Dadayampola village. Thiruwanaikanda, Beragala in Sri Lanka. This land can be accessed from Beragala junction via Thiruwanaikanda or from Balangoda via Kaltota, Meddabedda, in the Balangoda District.

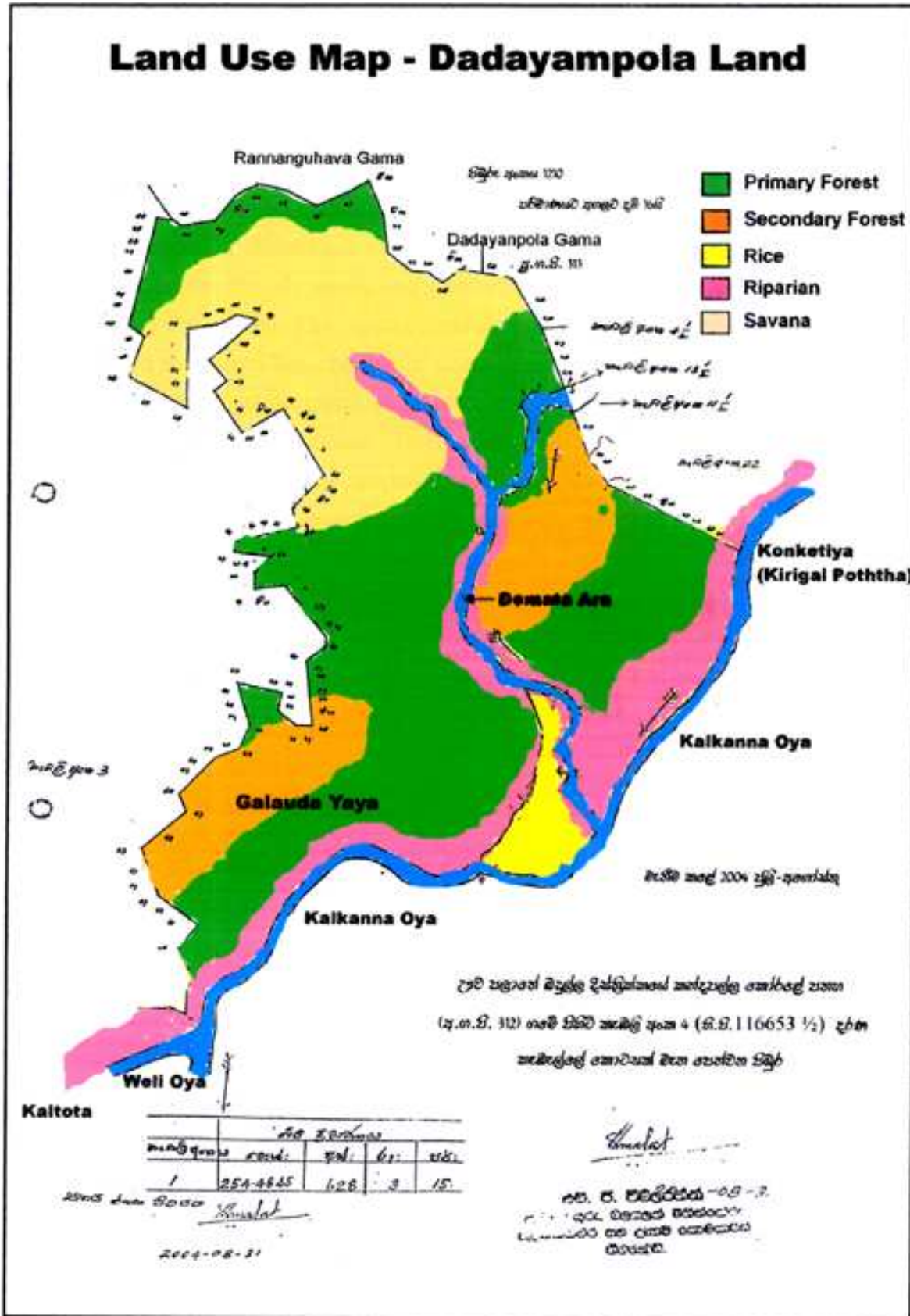
1.2 Climate and soil:

The proposed land falls in the mid country intermediate zone of Sri Lanka, more specifically within the IM2b agro-ecological region. The 75% annual rainfall expectancy of the area. The elevation is approximately 200-300m above mean sea level. The rainfall distribution of the area is such that mid January to February and June to Mid September is dry, while other months of the year are wet. The area has a very steep, hilly and rolling terrain.

Land use in the proposed land is shown in the Table 1. This shows that most of the land is covered with natural vegetation. This natural vegetation, uneven topography and natural streams that flowing through the land and also bordering the land have given rise to diverse range of habitats and eco-units. The landscape of the primary, secondary and riparian areas, exhibit rich biodiversity of various types of vegetation and biological diversity found in mature forests. The rice fields were not taken for sampling purposes.

1.3 Data received of land use.

Vegetation type	Extent (acres)
Riparian vegetation	43
Dense / primary forest	305
Secondary forest	80
Savanna forest	195
Rice fields	05
Total	628 acres (254.15 ha)



Annex 2

2. The Current carbon Market System

Presently, international agreements do not recognize the difference between fossil and biotic carbon, neither do they recognize time as a variable in carbon sequestering.

Under the Kyoto Protocol, there are mechanisms to offset the carbon emissions of countries and industries. Some of these mechanisms are the so called Clean Development Mechanisms (CDM) which includes planting trees to absorb the Carbon Dioxide from the atmosphere and sequester it in the trees and soil.

2.1 Forest Garden Product Biomass Carbon (Base load) System

This allows owners of standing forests and home gardens to record, quantify and certify the standing stock, so that the carbon can be offered for sale in the Voluntary Carbon Market (VCM) and at the same time provide a base calculation for the identification of stocks of incremented carbon. Our system takes into account both, the total sequestered carbon and the time that the carbon is locked up for in the eco system.

Forest Garden Product carbon utilizes a field verification technique that requires inspectors to physically verify the carbon base load of any given site and to confirm its ecological status.

Our base load account measures the carbon sequestered in different stages and the increment of it through the years.

Though approximately 50% of the dry weight of the biomass in a forest is assumed to be fixed carbon, in our calculations, we have adopted a very conservative rate of 25% carbon to dry weight bio mass of forest, as a large part of the forest bio mass is in weakly lignified or non lignified material.

The following carbon pools are recognised in the undertaking of the carbon accounting:

- Tree stem
- Tree canopy, comprising of branches, leaves etc
- Tree roots, coarse and fine
- Soil carbon, comprising carbon stored as organic matter
- Other, primarily understorey comprising of shrubs, grasses etc.
- Arboreal Litter, comprising large and small logs, branches and leaves on the forest floor, in conformity with the recognised Clean Development mechanisms and the IPCC good practice guidance rules. Our system has excluded this measure as it is too ephemeral.

Annex 3

Summary of calculations of Base Load Carbon

FGP Inspection & Certification (Pvt.) Ltd.



Total Biomass (Base load carbon)

License Name: Alpha & Omega Developers (Pvt.) Ltd.
License No: FGPICSL011
Sample Description: Forest Situated at Dadayampola Road, Dadayampola Village, Thiruwanakanda, Beragala, Sri Lanka

Sample Description	Total Land Extent (ha)	Total Above Ground Carbon (t)	Total Soil Carbon (t)	Total Bio Mass Carbon (t)
Primary Forest	123.30	58194.78t	3554.78t	61749.56
Riparian Forest	17.40	4721.38t	459.36t	5180.74
Secondary Forest	32.38	3649.87t	751.22t	4401.09
Savana Forest	78.92	1816.74t	1763.86t	3508.60
Total	252	68382.77t	6529.22	74911.99

Total Biomass Carbon = Total Above Ground Carbon + Total Soil Carbon

Total Biomass Carbon = 68382.77t + 6529.22t

= **74911.99t**

Average per ha Biomass (base load carbon) = 297.27t/ha

The final calculated and recorded value of the average of 297.27 Tons / ha for the 252 hectares is in keeping with the conditions met within a full grown mature tropical high rainfall forest.

Signatures of the Inspectors

Deva Vikrantha

Certifier

Signed on behalf of:

F.G.P Inspection & Certification (Pvt) Ltd.

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