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இணையத்தளம்  
Web Site

www.ifs.ac.lk

MINISTRY OF TECHNOLOGY AND RESEARCH



මූලික අධ්‍යයන ආයතනය  
அடிப்படைக் கற்கைகளுக்கான நிறுவகம்  
INSTITUTE OF FUNDAMENTAL STUDIES



හන්තාන පාර, මහනුවර, ශ්‍රී ලංකාව  
ஹந்தானவீதி, கண்டி, இலங்கை  
Hantana Road, Kandy, Sri Lanka

21 March 2014

**Analytical Report**  
**Chemical Composition of Coco Peat**

Sample of Coco Peat from; Circle 5 Eco Plantations Lanka (Pvt) Limited, 32A, Gellison Mawatha, Negambo, is as follows.

Sample	Moisture (%) d.w.b.	pH 1:5 v/v	EC 1:5 v/v, ( $\mu$ mhos/cm)	Na (%)	K (%)	Ca (%)	Mg (%)	P (%)	N (%)	OC (%)	C/N ratio	Ash (%)
Coco Peat	14.1	5.71	522	0.30	0.78	0.41	0.19	0.03	0.44	32.5	73.9	6.38

- No toxic materials is used and no added chemicals or ingredients in the process of manufacturing coco peat base value added product and 100% organic and these product contain only 100% *Cocos nucifera* (Coco Peat) and completely environmental friendly.
- No visible contamination with animal materials
- This coco peat is clean, free from soil, contaminant plant material and other extraneous matter
- Country of origin is Sri Lanka
- End use of product- fertilizer

Prof. Gamini Seneviratne  
Research Professor

Prof. Gamini Seneviratne  
Research Professor  
Institute of Fundamental Studies  
Hantana Road, Kandy  
Sri Lanka



# INDUSTRIAL TECHNOLOGY INSTITUTE (ITI)

P. O. Box, 787, 363, Bauddhaloka Mawatha, Colombo 7, Sri Lanka.

Telephone: 0094 011 2379800 Fax: 0094 011 2379850

120/4 A, Vidya Mawatha, Colombo 7, Sri Lanka.

Telephone: 0094 011 2379800 Fax: 0094 011 2379950

## TEST REPORT

Report No. SS 1214419

Report to:

Circle 5 Ecoplantation Lanka (Private) Ltd.,

No. 655/1F, Lake Road,

Boralesgamuwa,


Colombo.

Issued by:

Chemical & Microbiological Laboratory

Industrial Technology Institute

2012/12/03

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THE REPORT IS ISSUED SUBJECT TO CONDITIONS MENTIONED OVERLEAF

"PLEASE ADDRESS ALL COVERS TO THE DIRECTOR"



## TEST REPORT

Report No. SS 1214419

<b>Customer:</b> Circle 5 Ecoplantation Lanka (Private) Ltd., No. 655/1F, Lake Road, Boralesgamuwa, Colombo.	<b>Test Item:</b>  COIR PRODUCTS  Service Requested: Parameters requested by the customer in letters dated 2012/07/19.
<b>Descriptions:</b>  1. Approximately 5kg of coco peat in a sealed polythene bag.  2. Approximately 5kg of coco-chips wrapped with polythene.  3. Approximately 5kg coco-chips wrapped with polythene.  4. Approximately 5kg of coco chips wrapped with polythene.  5. Approximately 5kg of coco peat wrapped with polythene.	<b>Identification of Test Item:</b> <b>Labels:</b> 100% coco-peat Bag sample 1  PreMiereCocos-Coco chips 100 (100% Coco-Chips) Weight: 5kg, Dimension: (30x30x20)cm  PreMiereCocos-Cocos70:30 (70% Coco-peat+ 30% Coco-Chips) Weight: 5kg, Dimension: (30x30x20)cm  PreMiereCocos - cocos 90:10 (90% Coco-peat + 10% Coco-Chips) Weight: 5kg, Dimension: (30x30x20)cm  PreMiereCocos - Cocos 100 (100% Coco-peat) Weight: 5kg, Dimension: (30x30x12)cm  Date of Receipt of Test Item: 2012/10/31
Test Dates: 2012/11/06 to 2012/11/19	



Report No. SS 1214419

## TEST RESULTS:

Test/Unit	Method	Results					Limit of Detection
		1	2	3	4	5	
Sodium, percent by mass	AOAC 965.09: 2002	0.17	0.8	0.12	0.14	0.23	-
Magnesium, mg/kg		71.53	335.98	62.35	75.27	46.01	-
Potassium, percent by mass		0.67	0.11	0.34	0.37	0.50	-
Calcium, percent by mass		0.06	0.07	0.08	0.07	0.03	-
Cadmium, mg/kg		Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.1
Lead, mg/kg		Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.5
Arsenic, mg/kg	AOAC 986.15: 2002	0.22	0.1	0.34	0.29	0.37	-
Mercury, mg/kg	AOAC 999.10: 2002	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	0.05

  
.....  
Authorized Signatory

**J.K.A. Bendulasoma Wijegunasekara**  
Head  
2012/12/03  
/dpc  
Chemical & Microbiological - Laboratory

  
.....  
Mr. A. Perera  
Technical Assistant





# INDUSTRIAL TECHNOLOGY INSTITUTE (ITI)

P. O. Box, 787, 363, Baudhaloka Mawatha, Colombo 7, Sri Lanka.  
Telephone: 2693807 Fax : 2691799

Vidya Mawatha Premises, Colombo 7, Sri Lanka.  
Telephone: 2674461 Fax : 2677051

## TEST REPORT

Report No. SS 1210965

Report to:

Circle 5 Ecoplantation Lanka (Pvt) Ltd.,  
No. 655/1F, Lake Road,  
Boralesgamuwa.


Issued by:

Chemical & Microbiological Laboratory  
Industrial Technology Institute

2012/10/18

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2012/10/23

  
2012/10/23



## TEST REPORT

Report No. SS 1210965

<b>Customer:</b>  Circle 5 Ecoplantation Lanka (Pvt) Ltd., No. 655/1F, Lake Road, Boralesgamuwa.	<b>Test Item:</b>  <b>COIR PRODUCTS</b>  <b>Service Requested:</b> Parameters requested by the customer in letters dated 2012/07/19, 2012/08/14 & 2012/08/15
<b>Descriptions:</b>  1. Approximately 5kg of coco peat in a sealed polythene bag.  2. Approximately 5kg of coco-chips wrapped with polythene.  3. Approximately 5kg coco-chips wrapped with polythene.  4. Approximately 5kg of coco chips wrapped with polythene.  5. Approximately 5kg of coco peat wrapped with polythene.	<b>Identification of Test Item:</b> <b>Labels:</b>  100% coco-peat Bag sample 1  PreMiereCocos-Coco chips 100 (100% Coco-Chips) Weight: 5kg, Dimension: (30x30x20)cm  PreMiereCocos-Cocos70:30 (70% Coco-peat+ 30% Coco-Chips) Weight: 5kg, Dimension: (30x30x20)cm  PreMiereCocos - cocos 90:10 (90% Coco-peat + 10% Coco-Chips) Weight: 5kg, Dimension: (30x30x20)cm  PreMiereCocos - Cocos 100 (100% Coco-peat) Weight: 5kg, Dimension: (30x30x12)cm  Date of Receipt of Test Item: 2012/08/13
<b>Test Dates:</b> Chemical - 2012/08/28 to 2012/10/04 Microbiological - 2012/08/18 to 2012/08/26	

tf  
2012/10/23  
2012/10/23



Report No. SS 1210965

## TEST RESULTS:

Test/Unit	Method	Results				
		1	2	3	4	5
Electrical conductivity (1:6), $\mu\text{S}/\text{cm}$	SLS 1219:2001	43.9	149.2	101.7	87.3	485.7
pH (1:6) (wet volume)		8.3	8.1	8.1	7.6	6.6
Wet volume expansion		1:3	1:1.5	1:5	1:4	1:3
*Water holding capacity, percent by mass		80.5	54.8	90.6	87.4	89.3
Moisture, percent by mass		19.2	11.3	15.0	16.7	12.8
Mineral content, percent by mass	Soil Chemical Analysis by ML Jackson	5.7	2.2	6.2	6.3	22.6
Carbon nitrogen, (ratio)		1:73	1:71	1:65	1:64	1:54
BaCl <sub>2</sub> analysis (SO <sub>4</sub> content), percent by mass		0.007	0.03	0.03	0.03	0.03
Air filled porosity, percent volume by volume	BS4156: 1990	9.6	4.3	10.0	9.0	9.0
Mould count (at 25 <sup>o</sup> c/5 days), per g	SLS 516-2- 1991	4.2x10 <sup>4</sup>	4.1x10 <sup>3</sup>	5.0x10 <sup>3</sup>	3.5x10 <sup>4</sup>	5.2x10 <sup>4</sup>
<i>E.coli</i> count, (MPN), per g	SLS 516-3- 1982	*ND	*ND	*ND	*ND	*ND
<i>Salmonella</i> , per 25g	SLS 516-5- 1991	Absent	Absent	Absent	Absent	Absent

\*ND - Not Detected

Analysis was carried out by Mrs. C.K. Wickramasinghe, Senior Technical Officer &  
Mr. C. Nawarathne, Technical Assistant.

.....  
Authorized Signatory

**M. N. A. Mubarak**

B.Sc (sp. Hons), M.Sc (Delft)  
Senior Research Officer

2012/04/19  
Chemical and Microbiological Laboratory

/dpc

.....  
Authorized Signatory

**Mrs. Sajeevika Perera**

Senior Research Officer  
Chemical & Microbiological Laboratory

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ITI/Form /07-07/V1.1  
Issue Date: 2010/05/12

## PROFORMA INVOICE

INDUSTRIAL TECHNOLOGY INSTITUTE

CUSTOMER COPY/ITI COPY

**Location: Research & Development**

363, Bauddhaloka Mawatha, Colombo 07  
Tel (General) :11 2379800  
Fax (General) :11 2379850

**Postal Address:**

363, Bauddhaloka Mawatha, Colombo 07

**Location: Technical Services**

120/4A, Vidya Mawatha, Colombo 07  
Tel (General): 11 2379800  
Fax (General): 11 2379950

Queries: clo@iti.lk

VAT No : 409088775-7000

Our Ref: P120715801

Date : 15/08/2012

**Customer Details**

Name : Circle 5 Ecoplantation Lanka (Pvt) Ltd  
Address : No:655/1F, Lake Road  
Boralesgamuwa

Date of Request : 13/08/2012

CR No : C1207158

VAT No :

Contact Person : Mr. Danny Thananchayan

Tel : 0112545770

Fax : 0112545982

E Mail :

Details of Service Required: Analysis of 4 samples of Coir pith for requested parameters

Service / Items	Quantity	Unit Price (Rs.)	Sub Total (Rs.)
Coir pith( pH )	4	1,000.00	4,000.00
Coir pith( Water Holding Capacity )	4	2,400.00	9,600.00
Coir pith( Conductivity )	4	1,200.00	4,800.00
Coir pith( Air filled Porosity (optional) )	4	1,200.00	4,800.00
Coir pith( Moisture )	4	1,000.00	4,000.00
Coir pith( Salmonella )	4	2,700.00	10,800.00
Coir pith( E.Coli )	4	2,400.00	9,600.00
General( Total ash )	4	1,200.00	4,800.00
General( Yeast & mould count )	4	1,200.00	4,800.00
General( Wet Volume Expansion )	4	2,000.00	8,000.00
C : N ratio	4	4,800.00	19,200.00
BaCl2	4	3,000.00	12,000.00
Remarks:	Service Charge		96,400.00
	VAT - 12%		11,568.00
	Total Charge		107,968.00

PLEASE NOTE THAT THE COMMENCEMENT OF SERVICES WILL BE ONLY AFTER RECEIPT OF PAYMENT





# PROFORMA INVOICE

INDUSTRIAL TECHNOLOGY INSTITUTE

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**Location: Research & Development**  
363, Bauddhaloka Mawatha, Colombo 07  
Tel (General) : 2693807-09, 2698621, 2697990, 2692776  
Fax: 2691799

**Location: Technical Services**  
120/4A, Vidya Mawatha, Colombo 07  
Tel (General): 2674461-62  
Fax (General): 2677051

**Postal Address:**  
363, Bauddhaloka Mawatha, Colombo 07

**Queries:** [cjo@iti.lk](mailto:cjo@iti.lk)  
**VAT No:** 409088775-7000

**Our Ref:** P090768401

**Date:** 11/08/2009

**Customer Details**

**Name :** Circle 5 Ecoplantation Lanka (Pvt) Ltd  
**Address :** No: 41, Joseph Lane,  
Colombo 04

**Date of Request :** 11/08/2009  
**Reference :** C0907684  
**VAT No :**

**Contact Person :** Mr. Danny Thananchayan

**Tel :** 0773566394

**Fax :**

**E Mail :**

**Details of Service Required:** Analysis of 2 samples of Coir Pith

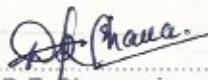
Service / Items	Quantity	Unit Price (Rs.)	Sub Total (Rs.)
EC	2	1,100.00	2,200.00
pH	2	900.00	1,800.00
Mineral Content	2	1,100.00	2,200.00
E coli, Salmonella & Mould Count	2	5,800.00	11,600.00
Wet Volume Expansion	2	800.00	1,600.00
<b>Service Charge</b>			<b>19,400.00</b>
<b>VAT - 12%</b>			<b>2,328.00</b>
<b>Total Charge</b>			<b>21,728.00</b>

**PLEASE NOTE THAT THE COMMENCEMENT OF SERVICES WILL BE ONLY AFTER RECEIPT OF PAYMENT**  
Cheques (drawn in favour of **Industrial Technology Institute**) will only be accepted from Regular/Deposit Customers.

**Please do not deduct "Withholding Tax (WHT)" as ITI has obtained a "WHT Direction" from the Dept. of Inland Revenue.**

*In case of cancellation of a request by the customer, refund of payment will be made after a retainer charge of 5% of total amount paid (not including tax). This refund will only be made on condition that the work has not commenced. Any cancellations will have to be made in writing within 01 month of payment. The refund, excluding the tax component will be made by the ITI within 01 month of notification by the customer.*

*In case of cancellation of a request by the ITI, refund of payment will be made within 01 month from the date the cancellation is informed to the customer. The refund, including the tax component will be made to non-tax payers and excluding tax to tax payers as a tax invoice has already been issued.*

  
I D R Chamani  
Customer Liaison Officer  
Tel: ~~2674461~~ Ext:139

2379907.