



Analytical Division, Lifesciences facility : 5, Alexandria Knowledge Park, Genome Valley,
Hyderabad - 500 078, RR District, India
☎ : 91-40-6740 4040, Fax : 91-40-2726 3657, Email : quality@vimta.com

TEST REPORT

ISSUED TO:

HYDERABAD INTEGRATED MUNICIPAL SOLID WASTE LIMITED
(WHOLLY OWNED SUBSIDIARY OF REEL)
5TH FLOOR, TRS TOWERS, D.NO:6-3-1090 RAJBHAVAN
ROAD, SOMAJIGUDA
HYDERABAD-82
A.P INDIA
Ph: 44422312,
KIND.ATTN. : Mr.KOTESWAR RAO

Report Number : **03297/13/VLL/000/01A**
Issue Date : 2013-05-25
Your Ref : LETTER
and Date : 2013-05-20

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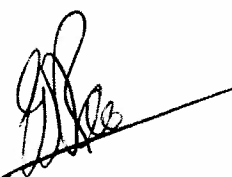
Sample Particulars: 100 mm REJECT-RDF SAMPLE

Sample Received date : 2013-05-20 Sample Registration Date : 2013-05-21
Analysis Starting date : 2013-05-22 Analysis Completion date : 2013-05-25
Quantity received: 1 No Packed in Polyethylene cover
Sample coded as: 100 mm Reject-RDF Sample.
Test(s) required: Proximate, GCV(dry basis), NCV(dry basis).
SAMPLE TESTED AS RECEIVED BASIS LAB REF: S&S/SAT/5529347

TEST RESULTS

Sl. No	Test Parameters	Unit of Measurement	Result
1	Moisture	%	3.93
2	Ash	%	13.07
3	Volatile matter	%	73.62
4	Fixed carbon	%	9.38
5	Gross calorific value	Cal/gm	4067
6	Net calorific value	Cal/gm	3803

Method of Testing : As per ASTM E871, E872 & ASTM D1102, As per ASTM E-711.


Srinivasa Rao Ghanta
ANALYTICAL LABORATORY

LSF-0552564

Note : This report is subject to the terms and conditions mentioned overleaf.
Vimta Labs Ltd., Regd. Office: 142, IDA, Cherlapally, Hyderabad 500051, India, ☎91-40-27264141, URL: www.vimta.com



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HYDERABAD-82
A.P INDIA
Ph: 4442 2312,
KIND.A.TN. : Mr.KOTESWAR RAO

Report Number : 03297/13/VLL/000/01 B

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Sample Particulars: 100 mm REJECT-RDF SAMPLE

Sample Received date : 2013-05-20 Sample Registration Date : 2013-05-21
Analysis Starting date : 2013-05-22 Analysis Completion date : 2013-05-25
Quantity received: 1 No Packed in Polyethylene cover
Sample coded as: 100 mm Reject-RDF Sample.
Test(s) required: Ultimate analysis, CI%(Received basis).
SAMPLE TESTED ON DRY BASIS LAB REF: S&S/SAT/5529349


TEST RESULTS

Sl. No	Test Parameters	Unit of Measurement	Result
1	Mineral Matter	%	13.60
2	Carbon as C	%	44.11
3	Hydrogen as H	%	4.98
4	Nitrogen as N	%	0.63
5	Sulphur as S	%	<0.01
6	Oxygen as O (Remainder)	%	36.67
7	Chlorides as Cl	%	0.27

Method of Testing : As per SOP NO:26/02; Instrument: Elementar CHNS Analyser, As per ASTM E 776.

LSF-0552566

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Srinivasa Rao Ghanta
S&S Manager Analytical LABORATORY



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Report Number : **03297/13/VLL/000/02A**

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Sample Particulars: 35 mm REJECT-35 mm BRIQUETTE SAMPLE

Sample Received date : 2013-05-20 Sample Registration Date : 2013-05-21
Analysis Starting date : 2013-05-22 Analysis Completion date : 2013-05-25
Quantity received: 2 No Packed in Polyethylene cover
Sample coded as: 35 mm Reject-35 mm Briquette Sample.
Test(s) required: Proximate, GCV(dry basis), NCV(dry basis).
SAMPLE TESTED AS RECEIVED BASIS LAB REF: S&S/SAT/5529350

TEST RESULTS

Sl. No	Test Parameters	Unit of Measurement	Result
1	Moisture	%	5.02
2	Ash	%	14.98
3	Volatile matter	%	54.59
4	Fixed carbon	%	25.41
5	Gross calorific value	Cal/gm	4837
6	Net calorific value	Cal/gm	4487

Method of Testing As per ASTM E871, E872 & ASTM D1102, As per ASTM E-711.

Srinivasa Rao Ghanta
Sr. Manager Analytical Laboratory

LSF-0552570



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Sample Particulars: 35 mm REJECT-35 mm BRIQUETTE SAMPLE

Sample Received date : 2013-05-20 Sample Registration Date : 2013-05-21
Analysis Starting date : 2013-05-22 Analysis Completion date : 2013-05-25
Quantity received 2 No Packed in Polyethylene cover
Sample coded as: 35 mm Reject-35 mm Briquette Sample.
Test(s) required: Ultimate analysis, CI%(Received basis).
SAMPLE TESTED ON DRY BASIS LAB REF: S&S/SAT/5529352

TEST RESULTS

Sl. No	Test Parameters	Unit of Measurement	Result
1	Mineral Matter	%	15.77
2	Carbon as C	%	58.68
3	Hydrogen as H	%	6.61
4	Nitrogen as N	%	1.17
5	Sulphur as S	%	<0.01
6	Oxygen as O (Remainder)	%	17.76
7	Chlorides as Cl	%	0.26

Method of Testing : As per SOP NO:26/02; Instrument:Elementar CHNS Analyser, As per ASTM E 776.

Srinivasa Rao Ghanta

LSF-C552572

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Sr. Manager Analytical LABORATORY



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Sample Particulars: 16 mm REJECT-16 mm BRIQUETTE SAMPLE

Sample Received date : 2013-05-20 Sample Registration Date : 2013-05-21
Analysis Starting date : 2013-05-22 Analysis Completion date : 2013-05-25
Quantity received: 1 No Packed in Polyethylene cover
Sample coded as: 16 mm Reject-16 mm Briquette Sample.
Test(s) required: Proximate, GCV(dry basis), NCV(dry basis).
SAMPLE TESTED AS RECEIVED BASIS LAB REF: S&S/SAT/5529354

TEST RESULTS

Sl. No	Test Parameters	Unit of Measurement	Result
1	Moisture	%	5.60
2	Ash	%	27.64
3	Volatile matter	%	55.46
4	Fixed carbon	%	11.30
5	Gross calorific value	Cal/gm	3549
6	Net calorific value	Cal/gm	3279

Method of Testing : As per ASTM E871, E872 & ASTM D1102. As per ASTM E-711.

Srinivasa Rao Ghanta
Sr. Manager Analytical

LSF-0552574

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Sample Particulars: 16 mm REJECT-16 mm BRIQUETTE SAMPLE

Sample Received date : 2013-05-20 Sample Registration Date : 2013-05-21
Analysis Starting date : 2013-05-22 Analysis Completion date : 2013-05-25
Quantity received: 1 No Packed in Polyethylene cover
Sample coded as 16 mm Reject-16 mm Briquette Sample.
Test(s) required: Ultimate analysis, CI%(Received basis).
SAMPLE TESTED ON DRY BASIS LAB REF: S&S/SAT/5529355

TEST RESULTS

Sl. No	Test Parameters	Unit of Measurement	Result
1	Mineral Matter	%	29.28
2	Carbon as C	%	38.86
3	Hydrogen as H	%	5.09
4	Nitrogen as N	%	1.53
5	Sulphur as S	%	<0.01
6	Oxygen as O (Remainder)	%	25.23
7	Chlorides as Cl	%	0.70

Method of Testing : As per SOP NO:26/02, Instrument:Elementar CHNS Analyser, As per ASTM E 776.

Srinivasa Rao Ghanta
Sr. Manager, Analytical Laboratory

LSF-0552576

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Sample Particulars: COCONUT SHREDDED-COIR PITH FIBER SAMPLE

Sample Received date : 2013-05-20 Sample Registration Date : 2013-05-21
Analysis Starting date : 2013-05-22 Analysis Completion date : 2013-05-25
Quantity received 2 No Packed in Polyethylene cover
Sample coded as: Coconut shredded-Coir pith fiber sample.
Test(s) required: Proximate, GCV(dry basis), NCV(dry basis).
SAMPLE TESTED AS RECEIVED BASIS LAB REF: S&S/SAT/5529358

TEST RESULTS

Sl. No	Test Parameters	Unit of Measurement	Result
1	Moisture	%	5.09
2	Ash	%	2.05
3	Volatile matter	%	89.03
4	Fixed carbon	%	3.83
5	Gross calorific value	Cal/gm	3855
6	Net calorific value	Cal/gm	3556

Method of Testing : As per ASTM E871, E872 & ASTM D1102, As per ASTM E-711.

LSF-C 552578

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S&S ANALYTICAL LABORATORY



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Sample Particulars: COCONUT SHREDDED-COIR PITH FIBER SAMPLE

Sample Received date : 2013-05-20 Sample Registration Date : 2013-05-21
Analysis Starting date : 2013-05-22 Analysis Completion date : 2013-05-25
Quantity received: 2 No Packed in Polyethylene cover
Sample coded as: Coconut shredded-Coir pith fiber sample.
Test(s) required: Ultimate analysis, CI%(Received basis).
SAMPLE TESTED ON DRY BASIS LAB REF: S&S/SAT/5529398

TEST RESULTS

Sl. No	Test Parameters	Unit of Measurement	Result
1	Mineral Matter	%	2.16
2	Carbon as C	%	47.16
3	Hydrogen as H	%	5.65
4	Nitrogen as N	%	0.41
5	Sulphur as S	%	<0.01
6	Oxygen as O (Remainder)	%	44.61
7	Chlorides as Cl	%	0.85

Method of Testing : As per SOP NO:26/02, Instrument:Elementar CHNS Analyser, As per ASTM E 776.


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Sr. Manager Analytical

LSF-0552580