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[www.mannaenergy.com](http://www.mannaenergy.com)

August 9, 2012

The CEO  
 Rwanda Development Board  
 Kigali, Rwanda

**Subject: Request for exemption to undertake an Environmental Impact Assessment (EIA) study for DelAgua Public Health Program in East Africa**

Dear Madam,

We are Manna Energy Ltd, a social enterprise company registered in Rwanda. Manna Energy Ltd is contracted by DelAgua Health and Development to execute "DeAgua Public Health Program", which is implemented in partnership with the Ministry of Health (MOH).

DelAgua Public Health Program in East Africa is a health project aiming at significantly reducing related waterborne diseases and respiratory diseases in one District (Gakenke) of Northern Province, four Districts (Muhanga, Ruhango, Nyaruguru and Nyamagabe) from Southern Province and six Districts (Karongi, Rubavu, Rutsiro, Nyamasheke, Nyabihu and Ngororero) from Western Province. After a baseline survey that happened from 23<sup>th</sup> to 28<sup>th</sup> July 2012, the program will implement a pilot project in October 2012 in project boundary and roughly 2,000 households will be covered.

During a full deployment of 600,000 households will benefit from improved cook stove and household water filter to be distributed by July 2013. Those facilities will be imported from abroad and distributed in overall coordination of Ministry of Health. Since this project will not harm environment in any case, we are requesting your good office to provide with us an official letter exempting us to carry out an EIA study. For further details, please see enclosed herewith a project summary.

Hoping that our request meets your consideration, we look forward to hearing from you soon. Please don't hesitate to contact my colleague, Jean NTAZINDA at 0788.481.439 or me.

Sincerely,

Josh Kefauver  
 Consulting Deputy Director  
 DelAgua Health and Development Program\*  
[Josh.kefauver@delaguahealth.com](mailto:Josh.kefauver@delaguahealth.com)

\*Operated under contract by



Kigali ... 05/09/2012 .....  
Ref: RDB/3/EC/JDK/.385.../09/12

Josh KEFAUVER  
Chief Operation Officer  
Manna Energy Ltd

**RE: Environmental Impact Assessment (EIA) Clearance**

Dear Sir,

Reference is made to your request for EIA exemption for 'DelAgua Public Health Program in East Africa', a Program of Activities (PoA) whose developer is DelAgua Health and Development Programs (NGO), and which is to be executed by Manna Energy Ltd with the aim of importing and distributing high-tech water filters and high efficiency improved cook stoves in Gakenke, Muhanga, Nyamagabe, Nyaruguru, Ruhango, Karongi, Ngororero, Nyabihu, Nyamasheke, Rubavu and Rutsiro Districts;

After the analysis of the documentation you provided concerning those technologies, we are pleased to announce that we have no objection to the implementation of the Program of Activities (PoA), provided that the equipment and treated water are first tested and certified by Rwanda Bureau of Standards (RBS) before full effect of technology use in the country. You are also requested to elaborate a clear plan with tangible measures to manage wastes from defective and worn out equipment and other devices to be used in the monitoring and follow up of the project.

Sincerely,

  
  
for **Tony NSANGANIRA**  
Ag Chief Operating Officer

**Cc:**

- Director General of REMA
- Director General of EWSA
- Director General of RBS
- Mayors of Gakenke, Muhanga, Nyamagabe, Nyaruguru, Ruhango, Karongi, Ngororero, Nyabihu, Nyamasheke, Rubavu and Rutsiro Districts



**RWANDA BUREAU OF STANDARDS**  
**OFFICE RWANDAIS DE NORMALISATION**

**TESTING LABORATORIES UNIT**

**TEST REPORT**

Page 1 of 1

REPORT N°395/m/12

**1.0. Details of the Sample**

**Name of Customer** : MANNA ENERGY Ltd, C/O: Gatera Emmanuel  
**Address** : Kigali-Rwanda  
**RBS Sample N°** : RBS0650/05/12  
**Sample Description** : Life straw water filter  
**Date Submitted** : 16/05/12

**2.0. Analysis of the Sample**

**Condition of the Sample** : Good  
**Date Analysis completed** : 19/05/12  
**Name of Laboratory** : Microbiology  
**Environmental Conditions**: Suitable

**3.0 Lab. Results**

Parameters tested	Test results	Test method/Sop
Total viable count, at 37°C for challenging water contaminated with <i>E. coli</i> , cfu/ml	>300 x 10 <sup>0</sup>	TLU/MIC/SOP-01, Rev0
Total viable count, at 37°C for the filtered challenging water, cfu/ml	>300 x 10 <sup>0</sup>	TLU/MIC/SOP-01, Rev0
<i>E. coli</i> , for the challenging water, cfu/100ml	>150 x 10 <sup>0</sup>	TLU/MIC/SOP-04, Rev0
<i>E. coli</i> , for the filtered challenging water, cfu/100ml	<1.0 x 10 <sup>0</sup>	TLU/MIC/SOP-04, Rev0

**KAYIRANGA Pascal :**  
**Head of Microbiology Section**

Signature : 

Date: 22/5/12

**MUKUNZI Antoine**  
**For**  
**Director General**

Signature: 

Date: 22-05-12

This test report shall not be reproduced other than in full, except with the approval of the Director General.

The results contained herein apply only to the particular sample(s) tested whose RBS number is herein quoted.

This test report shall not be used to advertise a product without a written consent of the Director General.

.....End.....

Our Ref: 952/RBS/DDG/12

Your Ref:

Date 27/06/2012

**Mr. Josh Kefauver**  
**Chief Operations Officer**  
**Manna Energy Limited**  
**P.O.BOX 1594**  
**Kigali.**

**Subject: Permission to use EcoZoom Dura Stoves for a Six-Month Certification Research Period**

The Rwanda Bureau of Standards (RBS) received your request to certify the EcoZoom Dura Stove on the basis of efficiency for; **CO** Emissions, **PM** emissions, **Energy** to cook, **Fuel** to cook and **Time** to boil.

RBS offers product certification services based on standards/guidelines and demonstration of conformity to the corresponding standard/guideline.

The Rwanda standard for energy efficient stoves is being developed. This standard when completed will be the basis to eventual certification of the stoves.

For purposes of carrying out research to verify the efficiency of the EcoZoom Dura stove, you are allowed to use the stoves for a period up to six months effective July 2012. The number of stoves used should be limited to only that sufficient for research purposes.

RBS will test the EcoZoom Dura stoves to verify their performance prior to certification.

Thanking you in anticipation of positive collaboration.

Yours sincerely,



**Eng. Patrice Ntiyamira**  
**Deputy Director General (Technical Operations)**



CC:

- Director General, RBS.



**RWANDA BUREAU OF STANDARDS**  
**OFFICE RWANDAIS DE NORMALISATION**

**TESTING LABORATORIES UNIT**  
**TEST REPORT**

Page 1 of 1

REPORT N°558/m/12

**1.0. Details of the Sample**

**Name of Customer** : MANNA ENERGY Ltd, C/O: D. FRAUCHIGER  
**Address** : VESTEGARD- FRANSEN, SWITZERLAND  
**RBS Sample N°** : RBS 0972/07/12  
**Sample Description** : Life straw family 2.0  
**Date Submitted** : 11/07/12

**2.0. Analysis of the Sample**

**Condition of the Sample** : Good  
**Date Analysis completed** : 13/07/12  
**Name of Laboratory** : Microbiology  
**Environmental Conditions** : Suitable

**3.0. Standard(s) Used**

RS1: 2012, Potable water specification.

**4.0 Lab. Results**

Parameters tested	Test results		Test method	Requirements (Max Limits)	Status
	Influent	Effluent			
Total viable count, cfu/ml at 37°C	>300 x 10 <sup>0</sup>	<1.0 x 10 <sup>0</sup>	TLU/MIC/SOP-1, Rev.0	100	Pass
E.coli, cfu/100ml	>100 x 10 <sup>0</sup>	<1.0 X 10 <sup>0</sup>	TLU/MIC/SOP-4, Rev.0	Shall be absent	Pass

**KAYIRANGA Pascal**  
**Head of Microbiology Section**

Signature : .....

Date: 13/7/12

**MUKUNZI Antoine**  
**For**  
**Director General**

Signature: .....

Date: 13-07-12

**This test report shall not be reproduced other than in full, except with the approval of the Director General.**

**The results contained herein apply only to the particular sample(s) tested whose RBS number is herein quoted.**

**This test report shall not be used to advertise a product without a written consent of the Director General.**

.....End.....

Our Ref:

167/RBS/DG/SU/13

Your Ref:

Date:

12/02/2013

**Mr. Josh Kefauver**  
**Deputy Director**  
**DelAgua Health and Development Program**  
**KIGALI**

**Re: RBS full Certification of EcoZoom Dura Stove**

Dear Sir,

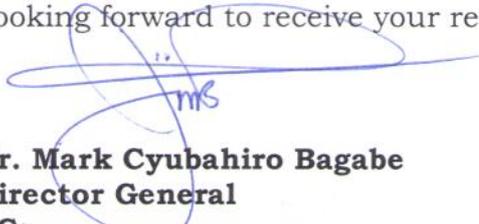
With reference to your request dated 4<sup>th</sup> February 2013, requesting full certification for EcoZoom Dura Stove,

I take this opportunity to inform you that RBS is currently developing a national standard on improved charcoal stoves which is at public enquiry stage and soonest RBS will embark on developing a standard on improved wood stove. certification is voluntary, it is not a mandatory requirement.

However, your request and all documentations you provided have been examined based on the requirements for product certification. It was found that Test Results provided were not done against a certifiable recognized standard, there is no evidence that the Testing Laboratory that issued the test results is accredited and the equipments used is not yet recognized as a standard testing equipment. The IWA guidelines referred to cannot be considered as standard limits for certification purposes.

While I appreciate your commitment to providing alternative energy solutions to improve the livelihoods of Rwandan people through use of improved cook stoves, I regret that RBS is unable to issue the requested certification.

Looking forward to receive your request once the standard is available.

  
**Dr. Mark Cyubahiro Bagabe**  
**Director General**

**CC:**

- Permanent Secretary, MININFRA
- Chief Executive Officer, RDB
- Director General, REMA
- Director General, EWSA

Kigali





**RWANDA BUREAU OF STANDARDS**  
**OFFICE RWANDAIS DE NORMALISATION**

Our Ref:

1361/RBS/DG/NSD/14

Your Ref:

Date:

20/08/2014

**Deputy Director**  
**Del'Agua Health and Development Programme**  
**KIGALI**

**Re: Your request for Certification of EcoZoom Dura Stove**

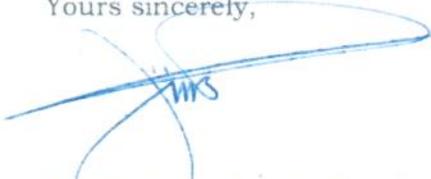
Dear Sir,

Reference is made to your Letter dated 6<sup>th</sup> August, 2014 requesting updates on the development of a national standard on improved cookstoves particularly wood stoves.

As communicated to you in the letter No. 167/RBS/DG/SU/13, it was expected to have one standard that could look at both charcoal and wood stoves. However, due to lack of sufficient data on the quality of wood stoves available on the market, it was decided to have a standard only on charcoal stoves which was published in 2013.

Currently, Rwanda Bureau of Standards, in collaboration with Rwanda Energy Group Ltd and Rwanda Utilities Regulatory Authority, is in the process of establishing wood stove standard and regulations to govern manufacturing, importation, donation, promotion, marketing and sales of improved cookstoves including charcoal and wood stoves. The standard is expected to be published by August 2015.

Yours sincerely,

  
**Dr. Mark Cyubahiro Bagabe**  
**Director General**



**Cc:**

- Hon. Minister of Health
- Director General, RURA
- Chief Executive Officer, REG Ltd

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E-mail: [info@bs.org.rw](mailto:info@bs.org.rw) Website: [www.rwanda-standards.org](http://www.rwanda-standards.org)



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January 2, 2015

The CEO  
Rwanda Development Board  
Kigali, Rwanda

**SUBJECT: Request for full Environmental Impact Assessment (EIA) exemption**

Dear Sir,

DelAgua Health Rwanda Implementation LTD (DelAgua) is currently implementing the DelAgua Public Health Program, a carbon project focused on significantly reducing waterborne diseases and respiratory diseases through the distribution of improved cookstoves and water filters. The program distributed technologies via two means:

- A free distribution program - called *Tubeho Neza* - implemented in collaboration with the Ministry of Health (MOH) that will distribute technologies to Ubedehe 1 & 2 households throughout Rwanda. The initial phase of the *Tubeho Neza* program is currently being implemented in Western Province, and will be completed before the end of 2014. DelAgua plans to expand the program to the rest of the country in 2015.
- A retail program, expected to begin in 2015.

The program was previously granted an exemption from undertaking an Environmental Impact Assessment (EIA) study for distributions in Gakenke, Muhanga, Nyamagabe, Nyaruguru, Ruhango, Karongi, Ngororero, Nyabihu, Nyamasheke, Rubavu and Rutsiro districts, as long as the equipment is tested and certified by the Rwanda Bureau of Standards (RBS) before full effect of the technology in the country, and that DelAgua elaborates a clear plan to manage wastes from defective and worn out equipment and other devices to be used in the monitoring and follow-up of the project.

As DelAgua has previously satisfied these conditions, and as the program has been found to have no harmful environmental effects, we request an official letter expanding the previous EIA exemption to all districts of Rwanda.

We hope that our request meets your consideration

Sincerely,

**Evan Thomas, PHD**  
Chief Operating Officer  
DelAgua Health Rwanda Implementation LTD

**Cc:**

- DG/Rwanda Environment Management Authority (REMA)
- DG/Rwanda Bureau of Standards

**Encl**

- EIA No Objection Letter
- RBS Test Results\_LSF
- RBS Update

Kigali ..... 30 / 01 / 2015 .....  
Ref: RDB/3/EC/JDK/..013../01/15

Evan THOMAS  
Chief Operation Officer  
DelAgua Health Rwanda Implementation Ltd

**RE: Environmental Impact Assessment (EIA) Clearance**

Dear Sir,

Reference is made to your request for EIA exemption for 'DelAgua Public Health Program', a carbon project focused on reducing waterborne and respiratory diseases through distribution of water filters and improved cook stoves, and for its expansion to all districts of Rwanda;

Reference is also made to our letter Ref: RDB/3/EC/JDK/385/09/12 of 05/09/2012 granting EIA clearance to the same project in the Districts of Gakenke, Muhanga, Nyamagabe, Nyaruguru, Ruhango, Karongi, Ngororero, Nyabihu, Nyamasheke, Rubavu and Rutsiro;

We are pleased to extend the clearance to your expanded project all over the country, but we advise you to approach REMA for any needed environmental audit in the districts where your project is currently operational. Project components requiring land acquisition and constructions, or any other new project activity, shall undergo EIA process before commencement.

Sincerely;

*for*  
Clare AKAMANZI  
Chief Operating Officer



*Innocent GASHUGI*

**Cc:**

- Hon. Minister of State in charge of Energy and Water, MININFRA
- Hon. PS, MINALOC
- Hon. PS, MINISANTE
- Director General of REMA
- District Mayors, All