





ANNUAL GROUP REPORT JAN 2014 – MAY 2015

BATC DEVELOPMENT BHD







REMARKS BY GROUP EXECUTIVE CHAIRMAN



Dato' Seri Mohd Safie M. Jaffri Group Executive Chairman BATC Development Bhd

Energy security and independence are vital to national security and to the socio-economic development of any country. The rise and fall of a nation depends on the strength and sustainability of their energy resources. Unfortunately, the passionate pursuit of energy resources and the high level of dependence on fossil fuel have caused climate change and global warming which must be addressed immediately.

I call upon all leaders in the world to work towards a mutual agreement to coordinate and unify the clean energy and biofuel policies and ensure the market's stabilization in order to secure an efficient, economic and regular supply of clean energy and biofuel to the industry and consumers while securing a steady income to producers and a fair return on capital for those investing in this industry.

BIONAS is willing and able to issue investment to meet the demand of any country for biofuel projects in their respective countries. BIONAS takes proactive steps by collaborating our expertise and technology with any party to make climate action a reality.





STATEMENT BY GROUP CHIEF EXECUTIVE OFFICER



ZURINA AMNAN Group Chief Executive Officer BATC Development Bhd

28th May 2015

To our stakeholders:

I am pleased to confirm that BATC Development Bhd reaffirms its support of the Ten Principles of the United Nations Global Compact in the areas of Human Rights, Labour, Environment and Anti-Corruption.

In this annual Communication on Progress, we describe our actions to continually improve the integration of the Global Compact and its principles into our business strategy, culture and daily operations. We also commit to share this information with our stakeholders using our primary channels of communication.

Sincerely yours,

Zurina Amnan





INTERVIEW WITH ZURINA AMNAN Published in Takshila Magazine, California Takshila University



WHAT MADE YOU DECIDE TO FOCUS ON THE BIOFUEL INDUSTRY IN YOUR CAREER?

The need to create new alternative energy sources due to uncertainty and high price of fossil fuels, also towards achieving a better and cleaner environment in line with the world's perspective on climate action.

No single organization or country can solve the problem of climate change and it would be foolish and arrogant to pretend otherwise. But we can make a difference by making a start and showing what is possible.

AS A WOMAN, DID YOU HAVE TO FACE MANY OBSTACLES IN YOUR AREA OF EXPERTISE?

No, I am more respected and my words will be heard by others.

On the issue of climate change, women are more vulnerable and reducing further their ability to cope with environmental hazards as well as weakening the woman's status and role in the society.

Women in the developing world are largely responsible for food production and food provision, the impact of climate change on agriculture means that women are most seriously affected by climate change.

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HOW DOES YOUR COMPANY SUPPORT COMMUNITIES IN MALAYSIA?

Bionas has a unique concept in developing its plantations with emphasis on the importance of economic development of the poor farmers. We provide 100% financing on jatropha seeds to the poor farmers to plant 4 hectares per person. We ensure the buyback price is good and kept on increasing it up to USD 400 per ton at present.

Our program has uplifted the community from poverty to financial independence, from despair to respect and unemployment to business owners.

We have also improved the infrastructure by providing road access, water catchment and mini-hydro electric.

WHAT PERSONALITIES INSPIRE YOU IN YOUR WORK AND PERSONAL LIFE?

My mentor, Bionas' group Executive Chairman, Dato' Seri Mohd Safie M. Jaffri. His vision and mission are very different than that of ordinary people. His prowess in executing it is highly remarkable.

WHERE DO YOU SEE YOUR COMPANY IN 3 YEARS FROM NOW?

The leading biofuel company in the world, based in Silicon Valley, California.

WHERE DO YOU SEE YOURSELF IN 3 YEARS FROM NOW?

Champion in combating climate change and poverty.

WHAT WOULD YOU RECOMMEND FOR YOUNG PEOPLE LOOKING FOR A CAREER IN YOUR INDUSTRY?

To make an assessment based on the technology and the implementation concept of the company. Small and medium size companies with competitive advantage are better than the big companies that lack of the opportunity for you to stand out.

DO YOU HAVE ANY INSPIRATIONAL MESSAGES FOR OUR STUDENTS?

Do not feel comfortable with the knowledge that you have. Real life in the outside world is not as easy as you might think. Only those who dare to take risks, strong and creative minds, perseverance, belief, confidence and good, will succeed.





INTRODUCTION

Agropolitan Bionas Technology Corridor Development Berhad or better known as BATC Berhad Development "BIONAS" under tradename was incorporated in 2004 and the project launched in 2007 with the objective of Jatropha promoting Curcas planting for fuel production as well as to generate wealth creation within the Malaysian Economy.

Company's The main unique selling proposition lies in its technology, chain, brandina supply control, its price leading position, and the relative low entry cost Jatropha producing biofuels by outsourcing a major portion of its supply chain costs and risks to existing yet idle multidollar refineries. million third party nursery partners partnering land owners and farmers.

VISION

BIONAS envisage developing new sustainable green economic activity which will enhance economic growth in rural areas and simultaneously eradicate poverty.

MISSION

To the leadina become producer of sustainable third generation renewable which energy, environmentally friendly, does not contribute deforestation, does not compete with food production while at the same time providing and improving socio-economic value local communities.





CONTENTS

No	Contents	Page
1.	Remarks by Group Executive Chairman	2
2.	Statement by Group Chief Executive Officer	3 – 4
3.	Introduction, Vision and Mission	6
4.	Financial Report	8
5.	About Bionas	9 – 15
6.	Jatropha Agropolitan Business Cluster Development	16 – 19
7.	Bionas Technologies	20 – 23
8.	Bionas Products	24
9.	Bionas Products Registration, Certification and Test Reports	25 – 36
10.	Bionas Activities	37 – 88
11.	Bionas Action Plan Towards United Nations Climate Change Conference (COP 21) in Paris 2015	89 – 90
12.	World Clean Energy Hub	91 – 94
13.	Behind The Success	95





FINANCIAL REPORT

Bionas has launched the Jatropha planting program for biofuel in Malaysia in 2007 with paid up capital of RM1.0 Million. In 2011, it's paid up capital was raised to RM100.0 Million. In 2009, the company has started venturing to other countries with more than 40 countries at present.

Not included the sales by its joint venture companies in other countries, Bionas' audited sales in 2008 was RM20.0 Million, 2009 at RM32.0 Million, 2010 at RM61.0 Million, 2011 at RM72 Million and 2012 at RM88 Million.

The sales for year 2008 to 2009 were from Jatropha seeds, seedlings, fertilizer and pressing mills; and the increased sales for year 2010 to 2012 were from 'samples' of biofuel additives.

After the products registration was approved by U.S Environmental Protection Agency (U.S EPA) on January 29, 2013, the company has secured a significant amount of commercial biofuel contracts in many countries and this will contribute to a drastic increase in sales volume for year 2013 to 2015 estimated to reach up to RM5.0 Billion.

The Company has developed eight (8) new clean energy and biofuel products for diesel, gasoline, heavyfuel, jetfuel, energy and power plant industries from various feed stocks including Jatropha, Algae, Canola, Rubber seed oil, Cotton seed oil and Used cooking oil.

Bionas clean energy and biofuel products are offered at the same price or lower than the international fossil fuel prices.







DATO' SERI MOHD SAFI'E M. JAFFRI, GROUP EXECUTIVE CHAIRMAN

Dato' Seri Mohd Safi'e M Jaffri, Malaysian, is the Executive Chairman of Bionas Group of Companies.

Prior to Bionas, he has acted in the capacity of Executive Chairman and Chief Executive of several national and notable organizations within the technology, investment and property development sectors in Malaysia and Singapore. These include chairmanships in public companies listed on the Main Board of Malaysia and the property development groups in Singapore.

His vision has led Bionas to take a leading position in the biofuel sectors globally. His unique concept and methodology in developing the Jatropha plantation has not only positioned the company in the global business arena but also contributed in poverty eradication amongst rural community as one of the principle of socioeconomic empowerment.

His investment into Nano-Emulsion and Polarization in biofuel production has created a revolutionary technology to the biofuel industry providing solution to the governments in any country to streamline and implement their National Biofuel Policy. His leadership has resulted in outstanding performance of the company in many countries with good increment in annual profits.

The Company is now a Member of the Climate Technology Centre Network (CTCN), UNEP and the Business Participant of the UN Global Compact (UNGC) and one of the Signatories for Caring for Climate (a joint initiatives of UNGC, UNFCCC and UNEP).

For his remarkable efforts in green and clean energy, he has been acclaimed with award and recognition from California Takshila University for excellent work in promoting energy independency and Appreciation Letter from the United Nations Environment Programme (UNEP).







ZURINA AMNAN, GROUP CEO

Zurina Amnan, Malaysian, is the Chief Executive Officer of BIONAS Group of Companies.

Zurina has been key in mapping out the Group's core strategies. She leads the operational supply chain, and business and corporate relations of the Group.

The Company's investment into Nano-Emulsion and Polarization technology in biofuel production has created a revolutionary in energy sector towards bio-energy sustainability and security. The production cost has reduced tremendously and the use of multi-feedstock has resulted to biofuels are offered at very competitive price.

She spent many years to prove the technology by conducting various tests of performance and emission in various climate conditions in many countries. Her leadership quality has extended the company's global presence to more than 40 countries.

Her passion towards bioenergy is expressed through her offer for technological collaboration to any countries in the world to streamline and implement their National Biofuel Policy.







She became one of the Climate Change Leaders for her participation during the United Nations Environment Programme (UNEP) Governing Council Global Ministerial Environment Forum (GC/GMEF) 2011 in Nairobi. She was one of the speakers at the Jatropha World Summit 2008 in Bali Indonesia, the 1st Philippine International Bio Energy Conference 2012 in the Philippines, the World Biofuel Market Conference 2012 in Rotterdam, BIT's New Energy Forum 2012 in China, the 4th International Conference on Biofuel Standards 2013 organised by the U.S National Institute of Standard and Technology (NIST) in Washington DC, the World Science Forum 2013 in Brazil and ExpoNaval 2014 organised by Chilean Navy in Chile.

She has received a letter of invitation from the UN Secretary General Ban Kimoon to attend the UN Climate Summit 2014 in New York on 23 September 2014 of which she was also invited by the UN Global Compact to chair one of the Round Table Discussions of the UN Private Sector Forum.

For her remarkable efforts in green and clean energy, he has been acclaimed with award and recognition from California Takshila University for excellent work in promoting energy independency and Appreciation Letter from the United Nations Environment Programme (UNEP).





Letter from UN Secretary General Ban Ki-moon to Bionas Group Chief Executive Officer, Madam Zurina Amnan



2 September 2014

Dear Ms. Amnan,

It is with great pleasure that I invite you to the Climate Summit I will host at United Nations Headquarters in New York on 23 September 2014.

Climate change, and our response to it, will be the defining issue of our time. Action today will define our ability to achieve the vision laid out in the Charter of the United Nations, from establishing the conditions for peace and justice, to ensuring dignity and equality for all people and nations, and promoting social progress and better standards of life for all. The health of our people, our economies and our planet depends upon it.

World leaders today have an unprecedented opportunity to reach a meaningful agreement and take actions on the ground that can put us on a path to sustainable prosperity. Governments have agreed to reach such a universal legal agreement in 2015. It is up to leaders from all levels of government, civil society and private sector, to scale up their actions and commitments to make this possible. This is the task before us at the Summit in September.

This is the first Summit I have hosted that brings together leaders from Government, private sector and civil society. In our increasingly interconnected world, vision and ambition must be advanced by a diverse and dynamic public-private partnership. Together, we can leverage our strengths, multiply our means, and shift the global climate trajectory. The Climate Summit will see the largest gathering to date of world leaders to catalyse climate action and to raise political ambition for a meaningful global legal agreement by 2015.

Ms. Zurina Amnan Group Chief Executive Officer BATC Development Bhd

I invite you to bring ambitious announcements and actions to the Summit and look forward to seeing you in September as we endeavour to provide prosperity, equity and security for this and future generations.

Yours sincerely,





Bionas is a Business Participant of the UN Global Compact and one of the Signatories for Caring for Climate.

Caring for Climate







March, 2014

Dear Dato' Seri Mohd Safie M. Jaffri,

We wish to thank you and to recognize your vision and leadership in endorsing the *Caring for Climate* initiative. In addition to your valuable participation to the UN Global Compact, BATC Development Bhd is now part of the largest global business movement to address climate change, endorsed by over 350 companies from 60 countries.

The climate change crisis has risen to the top of the international agenda with growing public concern. Companies, local governments and countries have already recognized and are capitalizing on the benefits of moving towards low carbon, climate resilient and green economy pathways. With Caring for Climate, the UN Global Compact, the UN Environment Programme (UNEP) and the secretariat of the UN Framework Convention on Climate Change (UNFCCC) seek to (i) mobilize businesses on a global scale to take a stand for a low-carbon and climate resilient economy through their processes, products and services; as well as (ii) inform the climate change global policy agenda in order to contribute to progress in the intergovernmental climate change process.

Caring for Climate offers ongoing engagement opportunities for signatories, in particular through events, publications and collaborative action platforms. Further information on upcoming engagement opportunities can be found on the initiative's website at www.caringforclimate.org.

We welcome BATC Development Bhd to the Caring for Climate initiative and look forward to working with you.

Sincerely,

Executive Director
UN Global Compact Office

Christiana Figueres Executive Secretary UN Framework on Climate Change Sylvie Lemmet Director UNEP DTI

Dato' Seri Mohd Safie M. Jaffri Group Executive Chairman BATC Development Bhd





Bionas becomes the first Private Sector Member to join the Climate Technology Centre and Network (CTCN).



23 April 2014

Re: Application for CTCN Membership

Applicant Reference: N0011 CTCN Reference: 2014/Membership06/BATC Dev. Bhd.

Dear Ms. Aminuddin,

Thank you for your application for the CTCN membership. We have completed our assessment of your application.

I am pleased to inform you that the BATC Development Bhd. has been granted the CTCN membership.

As detailed in the information note, which can be accessed on our website at http://www.unep.org/climatechange/ctcn/Portals/50212/Guideline_CTN_membership%20app_tication.pdf), CTCN members are invited to play a meaningful role in information sharing and capacity building, to provide as appropriate, technical assistance in response to country requests (response projects), and participate in outreach and networking activities.

I look forward to working in close collaboration with the BATC Development Bhd. toward serving the interests of the developing countries by providing high quality and diverse expertise in the transfer of climate technologies.

Yours sincerely,

Jukka Uosukainen CTCN Director

Ms. Norazlina Aminuddin BATC Development Bhd. No 87-1 1st Floor, Jalan Raja Mahmud Off Jalan Raja Abdullah Kampung Baru, 50300 Kuala Lumpur Malaysia

Climate Technology Centre and Network
UN City, Marmorvej 51, 2100 Copenhagen, Denmark
UNEP CTCN webpage: www.unep.org/climatechange/ctcn
Email: ctcn@unep.org

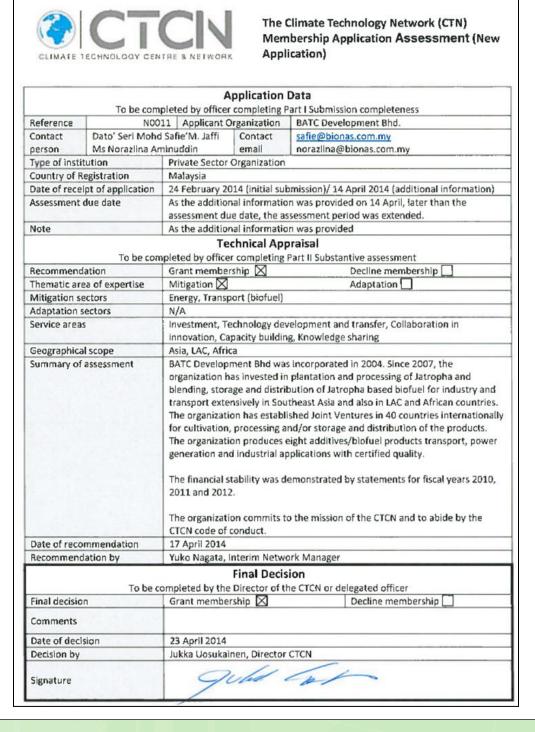
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ABOUT BIONAS

Bionas becomes the first Private Sector Member to join the Climate Technology Centre and Network (CTCN).







JATROPHA AGROPOLITAN BUSINESS CLUSTER DEVELOPMENT

Many people are becoming aware of the importance of preserving our resources and taking care of the environment. One of the most pressing concerns of the green movement is the need to reduce dependency on carbon-laden fossil fuels as a source of energy. This has motivated many researchers, companies and organizations to explore renewable alternatives.

BIONAS is one of them. Numerous efforts to find alternative oil fuel derived from plants have been carried out since that led to the discovery of the Jatropha curcas plants which are naturally endowed with multitudinous uses and unique properties.

Jatropha Curcas plants have the following unique qualities:

- Oil yield, approx. 33%
- Thrives well in tropical climates such as Malaysia.
- Fast growth; produces fruits after 6 months of cultivation.
- Low maintenance the use of pesticides and other polluting substances are not necessary, due to the pesticidal and fungicidal properties of the plant.
- Life expectancy of more than 45 years.
- One jatropha fruit contains 2-4 seeds that are processed into oil, which will then be used to produce biofuels.
- Small-sized and shady shrubs which makes it easy to harvest.
- An acre of land is capable of accommodating cultivation of 800 plants. Per acre yield of 3.6 metric tons of fruits annually in the first three years and multiply after the third year.

COMPARISON WITH OTHER VEGETABLE OILS

Jatropha is an attractive option and has the potential to become major biofuel, as it grows on very marginal land in tropical regions and it does not compete with farming crops such as corn, soya beans, peanut, cane and rapeseed, which were used in United States and Europe as feed stocks for biofuels.

That makes it potentially a better option than plants such as palm oil, which is currently a source of biofuel worldwide, but leads to substantial rainforest destruction.

Jatropha is also toxic so there is no conflict with food production.





BIONAS JATROPHA PLANTATION PROGRAM

During the last seven years, Bionas was able to build up expertise and grand experience in successful Jatropha plantation for the highest internationally recorded yields, as well as develop its own biofuel production technologies, which render the Bionas biofuel produced very cost-effective, compared to the processes the rest of the world has tried to utilize and failed.

Today, Bionas is the only successfully business story in the field of biofuel production using Jatropha. The company has presence in many countries and has grown its business to include over one million acres of Jatropha plantation in Southeast Asia alone.

More countries are seeking partnerships with Bionas to become part of Bionas Jatropha Plantation Program as the company guarantees through individually signed contracts with the involved farmers the best guarantee buy back of Jatropha seeds harvest at a gratifying price compared with international prices.

This is in addition to farmers receiving training and crucial know-how and best practices that has acquired in the field, and which is a must-have factor to the success of this project.

It is obvious that signing contracts with the impoverished farmers will bring the sense of partnership and ownership into these farmers and hence ensuring high success rate for the project.







JATROPHA PLANTATION

There are many challenges in Jatropha plantation and Biofuel program worldwide. Among the challenges were:

- Labour Intensive Harvesting need to be done on daily basis. Only fruits which are yellow and black can be collected.
- Low yield/ production lack of knowledge and technology effecting the production..
- Unavailability of Feedstock Average buyback market price of Jatropha harvests (seeds) worldwide is at US\$100 – US\$150 per ton and not attractive to the farmers.
- Land for Jatropha cultivation lease, rent or buy.
- Bio –diesel production via "Transesterification" which normally uses methanol
 derives from petroleum sources and energy intensive. Turning Jatropha biodiesel to meet EN14214 with minus 21C pour point requires the said methyl
 ester to be fractionated twice and this process is very energy intensive and very
 costly.

Bionas, however, came up with a solution to face the challenges.

The company gives away free Jatropha seeds for ten acres per person/farmer to gain access for free land and free workers with guarantee buy back of harvests at US\$260 - US\$400 per ton. This initiative has increased the number of farmers planting on their own lands which guarantee the sustainability supply of feedstock to Bionas.

Bionas capability to buy back the harvests at high price due to very cost effective biofuels production via polarization and nano-emulsion technology with no investment for a new set up of refinery and making use of the existing infrastructures, blending and storage facilities at existing refineries, port and airport.

KEY SUCCESS FACTORS

POLARIZATION & NANO EMULSION TECHNOLOGY IN BIOFUEL PRODUCTION (NT)
FREE INDEPENDENT WORKERS WITH ACCESS TO FREE LAND (EO)
GOOD BUY BACK PRICE OF HARVEST (EE)

=> Novel Technologies (NT) – Equal Opportunities (EO) – Ensured Equity (EE) NEXUS





JATROPHA PLANTATION

Bionas is intended to create sustainable income for the farmers by generating small enterprises. This will be achieved through:

- 1. For each of the 100 households involved in this business opportunity, permanent settlement in higher areas will be possible through the development of a complete agropolitan community.
- 2. The targeted population of farmers will be capacitated in the area of Jatropha plantation experiences and best practices that Bionas has accumulated through the years.
- 3. Each household will enjoy a sustainable annual income of about US\$5,480 (US\$4,900 from selling produced Jatropha seeds and US\$580 for total agricultural waste produced on 5 acres).
- 4. Establishing a biofuel production facility within the Jatropha plantations, the rural population targeted will also have access to modern clean fuel that they contribute in producing.
- 5. The targeted population will enjoy their new permanent stay in the agropolitan business cluster that will be gradually build within the plantations to include schools, hospital, recreation facilities, project housing, research institute together with other sources of income such as from vegetable growing, breeding of cattle, sheep, poultry and fish.



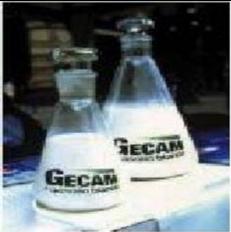






BIONAS TECHNOLOGIES







Above: Other companies emulsified fuel. Left: Bionas Bio-fuel.

Many companies and organizations know the benefits of Jatropha Curcas but only few of them succeed in using it to produce biofuel.

Most of them had to face several obstacles that stopping the technology from develop while others had to depend on transesterification process before they can sell it to users.

Different story occurred to Bionas. Their technology breakthrough in 2007 and the applied of Nano-Emulsion and Polarization technology has become the key success to the company growth, which only requires the blending and storage facilities to mix bio-additives with fossil fuels with no further investments on refinery and infrastructures.

With this technology, Bionas managed to make minimum savings of US\$50 million on transesterification refinery and this saving is channelled back to the farmers by offering good price for their harvest.





NANO-EMULSION TECHNOLOGY

Nano-emulsion technology is a chemical process of blending water, Bionas additive and fossil fuel which in-turn reacts and mix to form stable bonds with each other.

With the technology, water droplets suspended in the fuel thousand times smaller than traditional emulsions. This makes stable over time, temperature and pressure.

The exposed surface of a nano-emulsion facing other components such as oxygen and fuel is one million times larger than that of an emulsion.

A nano-emulsion is stable so that the danger of entry of liquid water to the engine components is null and void.

Water in fuel/diesel/petrol yields the following effects:

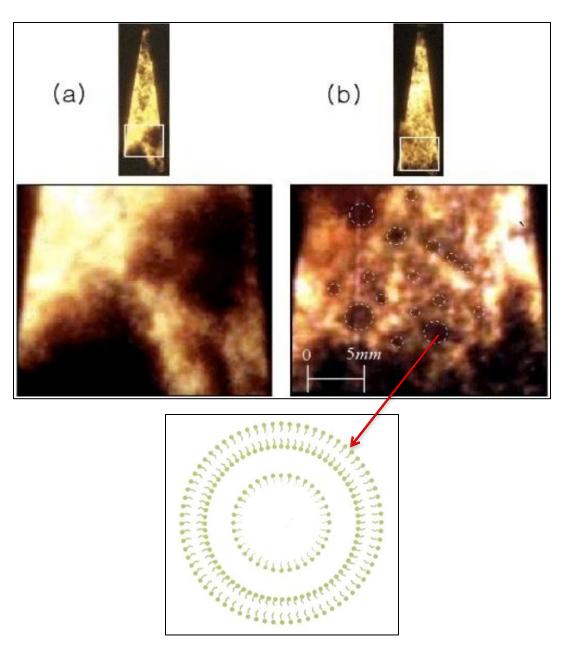
- 1. Water vaporization increases fuel dispersion in the form of smaller droplets.
- 2. Contact surface between fuel and air is increased.
- 3. Combustion is more efficient.
- 4. The explosion of excess water into steam and the splitting of water into H_2 and O_2 will increase power and fuel economy.
- 5. Reduces combustion temperature peak.(lowers NOx)
- 6. Particulate formation is reduced (lowers PM)
- 7. Lower emissions: Up to 25% NOx reduction, up to 60% PM reduction, up to 95% smoke reduction, up to 97% $\rm CO_2$ reduction.
- 8. Better lubricity.
- 9. Increased thermal efficiency.

The emulsified diesel/fuel is the only emission-control fuel technology that simultaneously lowers both PM and NOx with no free water.





NANO EMULSION



Nano-emulsion Structure

Pictures above shows that how the engine works and the burning takes place.

Picture (a) shows incomplete combustion with the normal fuel

Picture (b) shows more complete combustion with the use of biofuel using Nano-Emulsion technology





POLARIZATION TECHNOLOGY

Polarization Technology allows for alignment and displacement of positive and negative ions of elements and this is achieved under high pressure and highly magnetic environment.

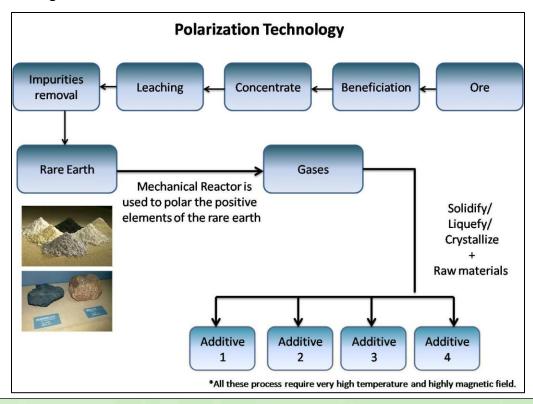
HOW DOES POLARIZATON WORK?

If molecules do not consist of only atoms of the same kind, the distribution of charges around an atom in the molecules leans to positive or negative.

When molecular vibration induce relative displacements of the atoms, the centers of positive and negative charges might be in different locations. These center positions are affected by the symmetry of the displacements.

When the centers do not correspond, polarizations arise in molecules. This is achieved under high pressure and highly magnetic environment. This further allows for the elements to form stable bonds with each other.

This technological breakthrough enables the production of new types of additives that when it is blended with fossil fuels and other elements creates a stable mix of a 3rd generation renewable fuels.







BIONAS PRODUCTS

- 1. B20 Bio Petrol (Nano-Emulsion Technology)
- 2. M30 Bio-Petrol (Polarization Technology)
- 3. Drop In Super Bio-Jet Fuel (Polarization Technology)
- 4. Bio Super Lube (Polarization Technology)
- 5. B25 Bio-Heavy Fuel (Nano-Emulsion & Polarization Technology)
- 6. B10-B30 Bio-Diesel (Nano-Emulsion & Polarization Technology)
- 7. BEES Bio Energy Emission Solution (Polarization Technology)
- 8. Bio-Booster Tablet (Polarization Technology)







BIONAS PRODUCTS REGISTRATION, CERTIFICATION & TEST REPORTS

The Company's products registration with U.S. Environmental Protection Agency (EPA).



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

JAN 29 2013

Bio Oil National Corporation Ms. Zurina Amnan Group Chief Executive Officer 1525 Long Beach Blvd. Long Beach, CA 90813 OFFICE OF AIR AND RADIATION

Dear Ms. Amnan:

Pursuant to your September 6, 2012 notifications, the following fuel additives have been registered per 40 CFR 79.23 (our internal identification number precedes the name):

267620001 Additive M30 Petrol

267620002 Additive B10 - B30 Bio-Diesel

267620003 Bio-Booster Tablet 267620004 Bio-Booster Liquid

Note that per 40 CFR 79.21(f) you would be required to notify us in writing if certain information in your notification were to change. In addition, note, that with your notification, you have provided assurances that you will not represent, directly or indirectly, in any notice, circular, letter, or other written communication, or any written, oral or pictorial notice or other announcement in any publication or by radio or television, that registration constitutes endorsement, certification, or approval by any agency of the United States.

Please call (202) 343-9648 if you have any questions.

Sincerely,

Byron J. Bunker Director

Compliance Division

Br. 4. 130

Internet Address (URL) ● http://www.epa.gov
Recycled/Recyclable ● Printed with Vegetable Oil Based Inks on 100% Postconsumer, Process Chlorine Free Recycled Paper





Certificate of Fuel Additive Registration from Department of Energy, Ministry of Energy, Philippines to Bionas Philippines Corporation



REPUBLIC OF THE PHILIPPINES DEPARTMENT OF ENERGY

Certificate of Fuel Additive Registration

This is to certify that the Department of Energy has duly registered **B30 & M30**, a Diesel/Gasoline Fuel Additive to **BIONAS PHILIPPINES CORPORATION** as Trader of said additive in accordance with the provisions of Section 27, Chapter 3 of R. A. 8749 otherwise known as "The Philippine Clean Air Act of 1999".

This Registration can be revoked anytime for non-compliance with the Department's reportorial requirements and failure to adhere with other conditions prescribed by the Department.

Issued this _31st_ day of _October _ 20_13__, at the Department of Energy, Energy Center, Fort Bonifacio, Taguig City, Metro Manila.

CARLOS JERICHO L. PETILLA

Secretary

Control No. : CFAR 13-08-206/FCF-T





Permanent Registration for M30 Bio-Petrol and B30 Bio-Diesel issued by the Ministry of Energy, Philippines for Bionas Philippines Corporation



Dr. Sharif Adzhar H. Sarahadil Chairman & CEO Bionas Philippines Corporation Bgy. East Poblacion, Salug Zamboanga del Norte

Dear Dr. Sarahadil:

This refers to your application for registration of B30 & M30 fuel additive which you intend to market to your clients.

In view of the substantial compliance and merits of your application, and without prejudice to other requirements of the Department of Energy pursuant to the provisions of Section 27, Chapter 3 of R. A. 8749 (*The Philippine Clean Air Act of 1999*), B30 & M30 fuel additive is hereby granted Permanent Registration under your company name with CFAR No. 13-08-206/FCF-T effective from the date of issuance indicated herein.

This Permanent Registration is subject to your compliance of the following conditions:

- Consistency with the guaranteed performance of the product;
- B30 & M30 should only be used as an additive and not for any other purposes; and,
- Submission of and full compliance with the quarterly reportorial requirements (Schedule VII-A).

Non-compliance to any of the above conditions shall automatically result to the revocation of said Permanent Registration.

This registration should not in any way be construed as an endorsement of the product nor be used for advertisement and commercial purposes.

Very truly yours.

CARLOS JERICHO L. PETILLA Secretary

Regulation of the Phillippines
BEARTMENT OF ENERGY
IN REPLYING PLS CITE
SOE-JLP-13006034

Energy Center, Merritt Rd., Fort Bonifacio, Taguig City, Metro Manila 1201 Philippines
Tel. Nos.: Trunkline (632)840-1401; Telefax (632) 840-2067; (632) 840-2138; (632) 840-4244; Fax (632) 840-1731; Hotline (632) 840-2130
Website: www.doe.gov.ph E-mail: info@doe.gov.ph

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Test result by PUSPAKOM (Malaysian Government Vehicle Inspection Agency) with 94% Emission Reduction.

OM SDN. BHD. tarkh	butir kenderaan motor yang dijana dalam laporan ini p ianya diperiksa adalah mematuhi kehendak-kehendai	perundangan	NO. KEPUTUSAN: A 258766		PAROM SUN, BHD.	lanya diperksa adalah mematuhi kehe	were unue ones being in	engari .	NO. KEPUTUSAN: A 25	
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Product: Bionas Bio-Booster Tablet Emission Test on Commercial Bus

Before: 70% After : 4%



Before

20;2/01/24 21:28

HC PPm 3164



20:2/01/24/21:28

TEXT TEXTS TEXT

HC PPm

Test result in the Philippines with **ZERO EMISSION**, using Bionas M30 Bio-Petrol.

PERFORMANCE TESTING OF BIOFUEL BIONAS PRODUCTS

TESTIMONIAL FORM

Product's Name

: M30 BIO PETROL

Date

: January 29, 2014

Driver's Name

: Jessie M. Ticon

Vehicle ID

: 0287

Model Type of Engine : Barako Kawasaki : Motor - Kawasaki

Testimonial Ref:Number

:test bionas 01/30/2014

OBSERVATION DATA:

OBSE	RVATION DATA:				CO %	0.20 7.0	CO % 0.20 7.0 /
NO.	PARAMETERS	INITIAL	AFTER	REMARKS	O ₂ % NO PPm λ RPM T oil	11.2 1 1.64 0 37.1	O2 N 11.2 NO PP 1 N 1.64 RPM 0 T 0:1 37.1
1	MILEAGE(KM)					After	
2	FUEL QUANTITY (L)	3 liters			20;2/01/24 HC PPm CO %	0.00	***** ********* 20:2/:1/24 23:12 HC PF 42 CO 9.00
3	EMISSIONS (observation)	0.20	0.00	100% Emission Reduction	CO ₂ % O ₂ % NO PPm RPM	0.0 20.7 0 0.00	02 ½ 20.7 NO PF

COMMENTS:

<u>I am Jessie M. Ticon a tricycle driver.</u> The product of the BIONAS Company is the best. 100% zero (0) carbon result from the emission test. Thank you so much to the BIONAS Company.

Conducted At: LTO (Land Transportation Office), Tagbilaran City, Bohol, Philippines

Signature over Printed Name





Certificate of Analysis on Bionas Bio-Booster Tablet



NANOC SDN BHD (659613-D)

No. 78 Jalan Nova U5/N, Seksyen U5, Subang Bestari, 40150 Shah Alam, Selangor, MALAYSIA Tel No: +603-7832 2011 Fax No: +603-7832 2311 Email: our.contact@nanoc.com.my



CERTIFICATE OF ANALYSIS

Our Reference

: NC/14/O&G/PET/TRI/325/B1(1-2)

Page

: 1 of 2

Customer Address

BATC DEVELOPMENT BHD

60-1, Jalan Usahawan 7

Wangsa Biz Avenue

Setapak, 53300 Kuala Lumpur

Tel No.

: 03-4142 2218

Fax No.

: 03-4142 2208

Attention To

: Ms. Azlina

Sample Description

: 1 Oil Samples

Sampling Date

: 29/05/2014

Sample Marking

: Oil

Laboratory ID

: NC/14/O&G/PET/TRI/325/B1(2)

Sample 2 : Bionas Bio-Booster Tablet in Petrol Ron 95

Date Received Date Completed : 29/05/2014 : 27/06/2014

				Results	Quality Specification Min/Max Limit	
No.	Test	Method	Units	Sample 2 : Bionas Bio-Booster Tablet in Petrol Ron 95		
1	#Copper Corrosion	ASTM D 130	_	1a	N/A	
3	#Sulphur	In House by XRF Method	wt %	ND (< 0.01)	N/A	
4	#Lead, Pb	ASTM D5185	ppm	4.04	N/A	
5	#Flash Point	ASTM D93	°C	38	N/A	
6	#Density @ 15°C	In House by Gravimetric Method	g/ml	0.7652	N/A	
7	#Pour Point	ASTM D97	°C	-27	N/A	

Remark: -

ASTM: American Society For Testing and Materials

#Test Method :Not accredited

Approved by

Name: Junaitun Alfarahim Jaafar Department : Laboratory

Date: 27 June 2014

The above analysis is based solely on the sample submitted by customer.

The certificate shall not be reproduced except in full without the written approval of the laboratory.

- End of Report -



Sample 1: Bionas Superlube Additive



Certificate of Analysis on Bionas SuperLube Additive



NANOC SDN BHD (659613-D)

No. 78 Jalan Nova U5/N, Seksyen U5, Subang Bestari, 40150 Shah Alam, Selangor, MALAYSIA Tel No: +603-7832 2011 Fax No: +603-7832 2311 Email: our.contact@nanoc.com.my



CERTIFICATE OF ANALYSIS

Our Reference

: NC/14/O&G/PET/TRI/325/B1(1-2)

Page

: 1 of 2

Customer Address

: BATC DEVELOPMENT BHD

60-1, Jalan Usahawan 7

Wangsa Biz Avenue

Setapak, 53300 Kuala Lumpur

: NC/14/O&G/PET/TRI/325/B1(1)

Tel No.

: 03-4142 2218

Fax No.

: 03-4142 2208

Attention To

: Ms. Azlina

Sample Description

: 1 Oil Samples

Sampling Date

: 29/05/2014

Sample Marking

: Oil

Laboratory ID Date Received

: 29/05/2014

Date Completed

: 27/06/2014

				Results	Quality Specification	
No.	Test	Method	Units	Sample 1 : Bionas Superlube Additive	Min/Max Limit	
1	#Copper Corrosion	ASTM D 130	-	1a	N/A	
	#Rust Test:		T			
2	Distilled Water	ASTM D 665	PASS/FAIL	PASS	N/A	
	Sea Water		40	PASS	N/A	
3	#Kinematic Viscosity @ 40°	ASTM D445	cSt	84.56	N/A	
4	#Kinematic Viscosity @ 100°C	ASTM D445	cSt	8.75	N/A	
5	#Viscosity Index	ASTM D2270	-	72.00	N/A	
6	#Total Acid Number	ASTM D664	mgKOH/g	0.66	N/A	
7	#Total Base Number	ASTM D2896	mgKOH/g	3.21	N/A	

Remark: -

ASTM : American Society For Testing and Materials

#Test Method :Not accredited

Approved by

Name: Junaitun Alfarahim Jaafar Department : Laboratory

Date: 27 June 2014

The above analysis is based solely on the sample submitted by customer.

The certificate shall not be reproduced except in full without the written approval of the laboratory.

- Continue





Tests conducted by Lloyd Aereo Boliviano S.A., Bolivia on Bionas Bio-Jet Fuel with 22% savings on fuel consumption.



Test on Boeing 727-200

22% savings on fuel consumption 75% lower vibration 85% emission reduction 12 °C lower engine oil temperature







LLOYD AEREO BOLIVIANO S.A.

GGCBB/0009/SI00/14

PRUEBAS REALIZADAS PARA LA EMPRESA "BIONAS"

CB 21-05-2014-hr 14,00-CBB-Banco de Prueba de corrida de Motores Prueba motor Aeronave 727-100 Motor P&W JT8D-9A Serial Number 654908 Prueba 1 Fuel JP1 Normal

Temp.26 °C	P/P 1,79
IDLE	
N132	87
EGT370	460
N256	91,5
F/F800	5100
Oil Temp99	
Oil Press 46	.48

CB 21-05-2014-hr 15,00-CBB-Banco de Prueba de corrida de Motores Prueba motor Aeronave 727-100 Motor P&W JT8D-9A Serial Number 654908 Prueba 2 Fuel JP1 con aditivo BIONAS jet fuel

Temp.26	C	P/P 1,79
IDLE		
N1	32,5	88
EGT	.368	451
N2	56	92
F/F	008	5000
Oil Temp.	99	60
Oil Press	46	48

Nota.- Solo se corrió el motor en Prueba de IDLE y Potencia Parcial.

Personas Responsables:

Tec. Freddy Mendoza Argote Jefe Dpto. Mantenimiento Tec. Osvaldo Muñoz Valdivia Jefe División Motores

Cochabamba, 21 de mayo del 2014

DIRECTORIO EJECUTIVO GERENCIA GENERAL

Av. Guillermo Kyllmann # O-1691 Casilla 132 SITA: C88GGLB Telfs: (591)(4) 425-1270/425-0736 Fax: (591) (4) 425-0766

cc: MM, GG, MO, File, Cron

82609992







INFORME DE ANALISIS RG-0006-B-PG-3-LAB-0001

PRODUCTO: BIONAS SUPER BIO-JET FUEL

PROCEDENCIA: LAB

FECHA DE MUESTREO: 2014-06-17 / 00:00

REFERENCIA: RCBA-GDV

MUESTRA:

INFORME DE ANALISIS RG-LAB-0006-A

ANEXO A PG-3-LAB-0009

N°: 2730

	PRUEBA	METODO	UNIDAD	RESULTADO				
L								
	Muestra de Avión							
1	Estabilidad térmica							
L	Caída de presión en el filtro	ASTM D 3241	mmHg	1				
H	Depósitos en precalentador	ASTM D 3241	Código	<1				
	Muestra Tanque Banco de Pruebas							
2	Estabilidad térmica							
	Caida de presión en el filtro	ASTM D 3241	mmHg	1				
ŀ	Depósitos en precalentador	ASTM D 3241	Código	<1				
0	BSERVACIONES:							
	ANDRA PRUEBA	METODO	UNIDAD /	RESULTADO				
SOT TA	OUR SHOOLS	Cochabamba, 25 de junio de 20	PumΔ	G				
	SBR/sbq Susana Gareca O. Analista	Nelson Solares Orteged / Nelson Solares Orteged / Nelson Solares Orteged / Nes Lic Repartable page 1 de 1						

Laboratorio Refineria "Gualberto Villarroel"

Av. Petrolera km. 6 Telf. (591)4 4762300 Cochabamba - Bolivia





Tests conducted by Makassar State University, Makassar, Indonesia on Bionas Bio-Booster Tablet with 20-30% savings on fuel consumption.

UNIVERSITAS NEGERI MAKASSAR TEST REPORT FOR BIONAS TABLET

Specification		1		2		3		4	
Additive Product	Bionas Tablet	Bionas Tablet		Bionas Tablet		Bionas Tablet		Bionas Tablet	
Inspection Date	1/20/2015		1/31/2015		2/7/2015		2/24/2015		
Type of Engine	Diesel Engine			ne	Gasoline Engi	ne	Gasoline Engine		
Engine Capacity	2800 CC		2500 CC		1500 CC		1500 CC		
Type of Pump	Injection pump	inline	- 1001488				-		
Type of Governor	Governor Vacuu	ım					- 100		
Fuel System	-		Common ria	al	Carburetor		Electronic Fuel Injection (EFI)		
Condition	car work witho	ut extra load	Long Distan	ice Drive	car work with	out extra load	car work without extra load		
Inspection Items	Solar (Diesel Fuel)	Solar + Bionas Tablet	Solar (Diesel Fuel)	Solar + Bionas Tablet	Premium (Gasoline Fuel)	Premium + Bionas Tablet	Premium (Gasoline Fuel)	Premium + Bionas Tablet	
Fuel Consumption	194 km= 14 L	194 km=14 L	rucij	Saving 20 -30%	ruer	Same without Bionas Tablet	rueij	Saving 20 -30%	
Power		+	- 100	+		+		+	
Acceleration		+	Nerton T	+	P	+		+	
Emission/Smoke	50%	18 - 37%	+		+		+	-	
Engine Sound	+		+	Anne and the second	+		+		

Note

A. Inspection result rest

- = Decline
- + = Increase

B. Conclusion

- 1. For diesel engine fuel consumption efficiency, it needs a treatment in the injection pump (manual)
- 2. For fuel system with carburetor, fuel consumption is the same without using bionas tablet.

Makassar, 3 March 2015 Head of Performance Test

Haruna HL.

Expert of Automotive Engineering





Tests conducted by Makassar State University, Makassar, Indonesia on Bionas Super Bio-Diesel 20-30% savings on fuel consumption.

UNIVERSITAS NEGERI MAKASSAR TEST REPORT FOR BIONAS SUPER BIODIESEL ADDITIVE

Specification		1	2			
Additive Product	Super Bio Di	esel	Super Bio Diesel			
Inspection Date	2/13/2015		2/15/2015			
Type of Engine	Diesel Engin	e	Diesel Engin	e/Heavy Duty		
Engine Capacity	2800 CC		4000 CC			
Type of Pump	Injection pur	mp inline	Injection pu	mp inline		
Type of Governor	Governor Va		Industrial			
Fuel System	121		-			
Condition	car work wit	h load	Constant			
Inspection Items	Solar (Diesel Fuel)	Solar + Super Bio Diesel	Solar (Diesel Fuel)	Solar + Super Bio Diesel		
Fuel Consumption	150 km= 14 L	150 km=10 L	17L/hour	14L/hour		
Power	+			Same without Super Bio Diesel		
Acceleration				+		
Emission/Smoke	+		+			
Engine Sound	+	-	+			

Note:

A. Inspection result rest

- = Decline
- + = Increase

B. Conclusions

 For diesel engine/heavy equipment, fuel consumption is more efficient, but the power of engine is the same without using super bio diesel additive

Makassar, 3rdMarch 2015

Head of Performance Test,

Haruna HL.

Expert of Automotive Engineering





BIONAS ACTIVITIES 2014 - 2015

Starting with Malaysia 7 years ago, Bionas biofuel products today are sold in more than 40 countries around the world. The latest products registration with the U.S. Environment Protection Agency (EPA) has also led to Bionas opening an operations office in the United States and sales are currently in 5 different U.S. States.

1. Malaysia	10. Hong Kong	19. Saudi Arabia	28. Austria	37. Panama
2. Indonesia	11. Taiwan	20. Qatar	29. Germany	38. Paraguay
3. Philippines	12. China	21. Kuwait	30. France	39. Uruguay
4. Thailand	13. South Korea	22. Bahrain	31. Poland	40. Bolivia
5. Myanmar	14. Pakistan	23. UAE	32. United States	41. Sudan
6. Vietnam	15. Bangladesh	24. U.K	33. Chile	42. Tunisia
7. Cambodia	16. Egypt	25. Belgium	34. Peru	43. Kenya
8. Singapore	17. Turkey	26. Switzerland	35. Ecuador	44. Nigeria
9. Brunei	18. Iran	27. Canada	36. Brazil	45. Ghana









Kuala Lumpur, 26 January 2014 - The Launching of Bionas products was held at the Putra World Trade Centre (PWTC), Kula Lumpur, attended by The High Officials from The State Government and Agencies, Corporate and Private Sectors from Malaysia, Indonesia, Thailand, Vietnam, Cambodia and Taiwan. More than 500 guests also witnessed the launching of Book titled "Roadmap to World Go Green - The Experiential Learning of Bionas".







Kuala Lumpur, 28 January 2014 - The Signing of Memorandum of Agreement for the setting up of BIONAS-USIM Industrial Centre for Excellence was held at the University Sains Islam Malaysia (USIM). The centre is a technology training center with necessary facilities and equipment through which Bionas can transfer its Nano-Emulsion and polarization technology to produce 200,000 expertises to be stationed in many countries. Performance and Emission Tests were conducted by PUSPAKOM during this event with very positive results of up to 87% emission reduction and more engine power.







Bohol, Philippines 30 January 2014 - Launching of Bionas 1st Gas Station in the Philippines attended by the transport groups and the investors. The gas station will supply B30 Bio-Diesel and M30 Bio-Petrol to jeepneys, buses and taxis.







Bohol, Philippines 31 January 2014 - Visit to Bionas Jatropha Seeds Buying Stations and Jatropha Plantations in Bohol.







Bohol, Philippines 31 January 2014 - Launching of Bionas Biofuel Program and Celebrating Bionas Jatropha Farmers Day in Bohol attended by the Mayor, Congressman's representative and more than 500 farmers.







Rizal Province, Philippines 1 February 2014 - Launching of Bionas 2nd Gas Station in the Philippines. The Gas Station will supply B30 Bio-Diesel and M30 Bio-Petrol to jeepneys, buses and taxis.







Quezon City, Philippines 1 February 2014 - Launching of Bionas 3rd Gas Station in the Philippines. The Gas Station will supply B30 Bio-Diesel and M30 Bio-Petrol to jeepneys, buses and taxis.



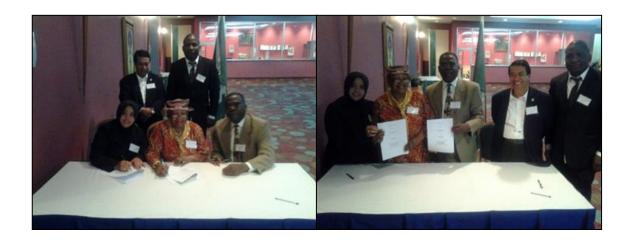




Manila, Philippines 3 February 2014 - Meeting with Mr. Alfredo E.Pascual, President of the University of the Philippines together with the Chancellor of Los Banos Campus and its Director for the setting up of the Centre of Excellence for the Nano-Emulsion and Polarization technology.







Abuja, 14 February 2014 - Signing of Joint Venture Agreement for Jatropha Plantation and Biofuel Production Program in Ghana.



Abuja, 14 February 2014 - Signing of Joint Venture Agreement for Biofuel and Additive processing, blending, storage, marketing and distribution in Canada.







Abuja, 14 February 2014 - Signing of Joint Venture Agreement for Biofuel and Additive processing, blending, storage, marketing and distribution in Dubai, UAE.



Abuja, 14 February 2014 - Signing of Joint Venture Agreement for Biofuel and Additive processing, blending, storage, marketing and distribution in United Kingdom, France and Germany.







Abuja, 13-14 February 2014 - 2-Day Seminar on Jatropha Plantation and Biofuel Production Program attended by 100 participants from the government and private sectors representing 15 states in Nigeria as well as the representatives from other countries namely Ghana, Canada, U.K, France, Germany and U.A.E.







Yangon, 22-23 February 2014 - A Joint Venture Agreement Signing Ceremony of Jatropha Plantation and Biofuel Production Program in Myanmar, witnessed by H.E Nyan Htun Aung, Union Minister, Ministry of Transport, Myanmar. Prior to the signing, a 2-day seminar and a number of live tests on vehicles using Bionas products was held at Parkroyal Hotel, Yangon.







Kuala Lumpur, 27 February 2014 - Launching of the Green and Clean Energy products in conjuction with the Signing of the Agreement for the incorporation of 'Bionas Malaysia' between Bio Oil National Corporation, USA, and Malaysian Government Company, Peneraju Management Sdn Bhd. Bionas Malaysia will provide solution to the Government in the issues of oil subsidy and oil price hike.







Zamboanga City, Philippines, 15 March 2014 - Bionas Go Green Mobile Filling Stations was launched in Zamboanga City. The operation of which Bionas lorries deliver to the 2,000L to 10,000L tanks established in the mining and milling sites as well trucking and transport group terminals. During this occasion, Bionas Philippines has signed three Agreements with CDO Transport Workers Organization to implement distribution for public utility vehicles in Cagayan de Oro City, the Midland Operators and Drivers Transport Organization which supplies to various industries, plants, trucking services and other clients in Mindanao and the ADC ACE Gas Company, an independent fuel distributor in the Philippines.







Lima, Peru, 18 March 2014 - Meeting with Peruvian Airlines and turbine engine tests conducted on Bionas Super Bio-Jetfuel with good results of 18% savings on oil consumption with no difference in temperature (freeze point).







Valparaiso, Chile, 19 March 2014 - Presentation at the University of Playa Ancha Valparaiso, Chile, followed by a meeting for the setting up of the 'Centre of Excellence' on Bionas Nano-Emulsion and Polarization technology to cater the countries in Latin America.







Valparaiso, Chile, 19 March 2014 - Meeting with the Rear Admiral Cristian Ramos Perez, Chilean Navy. He is also the Director of Programs, Research and Development. The meeting was focused on Bionas' participation in EXPONAVAL 2014 to be held in Chile on 2-5 December 2014 and the proposed use of Bionas B25 Bio-Heavyfuel and Bio-Booster Tablets by the Navy.







Valparaiso, Chile, 20 March 2014 - Meeting for partnership with PMC (Petroleos Marinos de Chile) a company owned by Glencore Xstrata for the blending, storage, supply and distribution of Bionas additives to the marine, mining and transport industries. Glencore Xstrata is one of the world's largest global diversified natural resource companies and is one of the biggest companies within the FTSE 100 Index. The Group's industrial and marketing activities are supported by a global network of more than 90 offices located in over 50 countries.







Long Beach, California, 12 April 2014 - Signing of Joint venture Agreement for Biofuel and Additive processing, storage, marketing and distribution in California, USA.







Long Beach, California, 7 May 2014 - Signing of Joint Venture Agreement for Biofuel and Additive processing, storage, marketing and distribution in Singapore.







Long Beach, California, 7 May 2014 - Signing of Joint Venture Agreement for Biofuel and Additive processing, storage, marketing and distribution in South Korea.







Santiago, Chile, 27 May 2014 - International Seminar on Sustainable Clean Energy and Biofuel Industry was held in Sheraton Santiago and Convention Center, attended by the Government and potential clients from the transport, shipping, aviation, mining, energy and oil & gas industries from Latin American countries. Also present the UN Global Compact, MATRADE and Malaysian Ambassador in Chile.







Santiago, Chile, 28 May 2014 - Meeting with the Environment Minister, Mr Pablo Badenier Martinez together with the Executive Director of UN Global Compact Chile, Ms Margarita Ducci.







Cochabamba, Bolivia, 1 June 2014 – Signing of the Joint Venture Agreement for the additive and biofuel processing, storage, marketing and distribution, establishment of the Centre of Excellence/University and Jatropha Agropolitan Program in Bolivia. Bionas-Bolivia has signed an Agreement with Federacion Sindical de Trabajadores, Lloyd Aereo Boliviano (LAB) to promote and supply the green and clean energy fuel to the aviation industry. LAB has successfully tested Bionas Super Bio-Jetfuel on Boeing 727-200 with 22% savings on fuel consumption, 75% lower vibration, 85% emission reduction and 12°C lower engine oil temperature.

0062













Lima, Peru, 5 June 2014 - Signing of Joint Venture Agreement for Biofuel and Additive processing, storage, marketing and distribution in Peru.







Lima, Peru, 5 June 2014 - Special presentation to the Government of Peru attended by the Ministry of Energy and Mining, Ministry of Environment, Peruvian Army, Peruvian Navy and PetroPeru.







Bohol, Phillipines 14 August 2014 - Switch On Ceremony of Press Mill and Launching of Jatropha Agropolitan & Biofuel Hub officiated by the Congressman Honorable Erico Aristotle Aumentado. Also present Mayor Sofronio Apat and Coordinators from Bohol, Leyte, Cebu and Iloilo.







Montevideo, Uruguay, 9 September 2014 - Meeting with Mr. Roberto Kreimerman, Minister of Industry, Energy & Mining and Ing. Agr. Olga Otegui from the National Directorate of Energy, Uruguay.



Santiago, Chile, 12 September 2014 - Signing of Joint Venture Agreement for biofuel and additive processing, storage, marketing and distribution in Brazil.







Quintero, Valparaiso-Chile, 16 September 2014 - Blending of B25 additive with Heavy Fuel Oil (IFO 380) at Glencore facilities monitored by Petroleos Marino's De Chile Ltd. (PMC) and Energy Partners Chile Ltd. (EPC).







UN Headquaters, New York, 23 September 2014 - Bionas group CEO was invited to chair one of the Round Table Discussions of the first segment of the UN Private Sector Forum participated by approximately 200 corporate CEOs, leaders from civil society and the UN.







Los Angeles, USA, 5 October 2014 - Bionas has launched the On-line Shopping site www.bionas-usa.com in conjunction with Bionas Go Green Program which was held at Intercontinental Los Angeles Century City at Beverly Hills. Bionas USA team is led by an American, Singaporean and Korean.







Paris, France, 10-11 October 2014 - The World Summit of Regions for Climate (R20) - Road to Paris 2015 was held at the Palais d'Iena in Paris, brought together regions and local governments from every continent, as well as economic leaders, to work towards a new international agreement on climate change. *Picture of Bionas' Chairman with Ms Michele Sabban, President R20-Regions of Climate Action*.







Paris, France, 11 October 2014 - Signing of Joint Venture Agreements for biofuel and additive processing, storage, marketing and distribution in France, Poland and Germany.







Kuala Lumpur, 12 November 2014 - Signing of Joint Venture Agreement for biofuel and additive processing, storage, marketing and distribution in China.







Valparaiso, Chile, 4 December 2014 - Bionas Group CEO has presented the Company's Technology of Nano-Emulsion and Polarization at ExpoNaval 2014 which was attended by more than 70 countries. Next to her were the speakers from Wartsila, Finland and MAN Diesel & Turbo SE, Germany. ExpoNaval 2014 was organised by the Chilean Navy (Armada de Chile).







Lima, Peru, 8-9 December 2014 - Caring for Climate Business Forum and High Level Meeting at COP20. The UN Secretary General Ban Ki-moon said 'All countries must be part of a solution, this is not a time for tinkering but transformation. The momentum for action is building'.







Sao Paulo, Brazil, 12 December 2014 - Meeting with Mr Jose Anibal, Secretary of Mines & Energy; and Briefing on Bionas technology and products.







Jakarta, Indonesia, 18 December 2014 - Energy Savings Conference was held at the Gran Melia Hotel, Jakarta attended by the Government and private sectors mainly from the energy and power plants as well as the shipping and aviation industries.







Kuala Lumpur, Malaysia, 20 January 2015 - Signing of Joint Venture Agreements for biofuel and additive processing, storage, marketing and distribution in Thailand & Brunei.







Kuala Lumpur, Malaysia, 20 January 2015 - Signing of Joint Venture Agreements for biofuel and additive processing, storage, marketing and distribution in Dubai & Kingdom of Saudi Arabia.







Makassar, Indonesia, 23 January 2015 - Energy Saving Seminar & Technical Workshop was held at Makassar State University attended by more than 350 participants from the university and leading industry players in road transport, shipping, power plants and mining companies.







Jakarta, Indonesia, 28 January 2015 - Bionas' CEO, Madam Zurina Amnan presented Bionas' technology and products at the Biofuels World - BioMarket Asia at Le Meridien, Jakarta.







Jakarta, Indonesia, 6 February 2015 - MOU signing ceremony for the proposed development of "World Clean Energy Hub" at Palangkaraya, Central Kalimantan, Indonesia, which will be implemented with the developments of the Green Smart City, Jatropha Agro-politan Business Cluster, Bionas bio-additives production and technology transfer as well as the e-Government system.







Jakarta, Indonesia, 12 February 2015 - MOU signing ceremony for the proposed development of "World Clean Energy Hub" at Nusa Tenggara Timur (NTT), which will be implemented with the developments of the Green Smart City, Jatropha Agro-politan Business Cluster, Bionas bio-additives production and technology transfer as well as the e-Government system.







Kuala Lumpur, Malaysia, 20 March 2015 - Signing of Joint Venture Agreement for biofuel and additive processing, storage, marketing and distribution in Malaysia.







Kuala Lumpur, Malaysia, 24 April 2015 - Signing of Joint Venture Agreement for Jatropha Planting, biofuel and additive processing, storage, marketing and distribution in Egypt.







Kuala Lumpur, Malaysia, 27 April 2015 - Signing of Joint Venture Agreement for Jatropha Planting, biofuel and additive processing, storage, marketing and distribution in Nigeria.







Bangkok, Thailand, 30 April 2015 - Bionas Group CEO, Zurina Amnan became one of the panel speakers at the UNEP Climate Technology Centre & Network (CTCN) Regional Forum for Asia which was held at the United Nations Convention Centre, Bangkok, attended by the National Designated Entities (NDEs) from many countries.







Jakarta, Indonesia, 13-15 May 2015 - Both Bionas Group CEO, Zurina Amnan and Bionas Indonesia CEO, Hendry Widjaya presented at the Energy & Mining Investment Forum, which was launched by the Indonesia President, Joko Widodo.







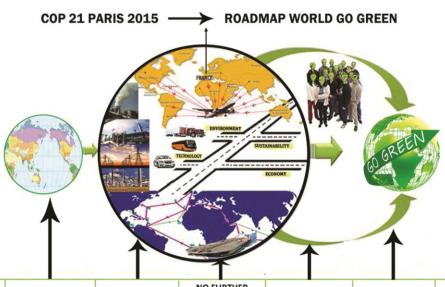
Kupang, NTT - Indonesia, 20 May 2015 - MOU Signing Ceremony for the development of Jatropha Agropolitan - Clean Energy Hub at Kupang Regency, Nusa Tenggara Timur (NTT). The press mill and additive production plant is expected to be launched within 2 months.





BIONAS ACTION PLAN TOWARDS UNITED NATIONS CLIMATE CHANGE CONFERENCE (COP21) IN PARIS, 2015

NANO-TECHNOLOGY INNOVATIVE APPLICATIONS FOR SUSTAINABLE GREEN ECONOMY AND CLIMATE CHANGE MITIGATION



POVERTY ERADICATION	NON-FOOD MULTI FEEDSTOCK	ALTERNATIVE FUEL	NO FURTHER INVESTMENT ON INFRASTRUCTURE	TECHNOLOGY TRANSFER	BENEFITS TO CONSUMERS	REAL TIME RESULTS & BEYOND
Human capital and socioeconomic for poverty eradication	Non-food multi feedstock produced by greenbelt countries	The raw material / renewable fuel to produce clean energy are easily accessible in many countries	Collaboration with oil & gas industries for the production of clean energy using their existing infrastructure and network	Nano-Emulsion & Polarization Technology Transfer to all countries as solution to climate change & energy crisis	Consumers Save 15% - 20% on daily fuel consumption and less maintenance. Clean energy for health and better life	Emission reduction 80% - 87% and saving on fuel consumption 20% - 30%

ROADMAP TO BE ADOPTED BY THE WORLD LEADERS OF CLEAN ENERGY FOR ACTION





WORLD GO GREEN ROADMAP

The pertaining issues in many countries in the world in relation to energy include:

- 1. The uncertainty and high price of fossil fuels due to tight oil produce/supply.
- 2. Oil dependencies from other nations.
- 3. The need to create new alternative energy sources.
- 4. The creation of new economy and creation of employment.

For these reasons, Bionas decided to capture the opportunity to offer reasonable solutions which will cover all of the pertaining issues in the world through a systematic expansion and competitive strategy – the Road Map to "World Go Green".

- Human Capital and Socio-economic Development for Poverty Eradication
- Non-Food Multi Feedstock Produced by Greenbelt Countries
- Easy Access to Raw Materials for Biofuels/ Renewable Energy in all Countries
- Collaboration with Gas & Oil Industries for Production of Clean Energy using their existing Network & Infrastructure
- Global Technology Transfer & Knowledge Sharing Leading to the Build-up of Green Economies around the Globe
- Consumers save up to 30% on Fuel Consumption and Less Maintenance
- Emission Reduction by 70-90%
- Achieving Global Clean Energy (Sustainability and Security)
- Practical Model to Lead Global Climate Change Efforts post COP21, Paris
 2015







BALI CLIMATE CHANGE CONFERENCE – DECEMBER 2007

The 13th session of the Conference of the Parties to the UNFCCC and the 3rd session of the Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol took place in Bali and were hosted by the Government of Indonesia. Also sitting were the twenty-seventh sessions of the Subsidiary Body for Implementation (SBI) and the Subsidiary Body for Scientific and Technological Advice (SBSTA) and the resumed fourth session of the Ad hoc Working Group on Further Commitments for Annex I Parties under the Kyoto Protocol (AWG-KP).

The Bali Climate Change Conference brought together more than 10,000 participants, including representatives of over 180 countries together with observers from intergovernmental and non-governmental organizations and the media.

Governments adopted the Bali Road Map, a set of decisions that represented the various tracks that were seen as key to reaching a global climate deal.





The Bali Road Map includes the Bali Action Plan, which launched a "new, comprehensive process to enable the full, effective and sustained implementation of the Convention through long-term cooperative action, now, up to and beyond 2012", with the aim of reaching an agreed outcome and adopting a decision at COP15 in Copenhagen. Governments divided the plan into five main categories: shared vision, mitigation, adaptation, technology and financing.

Other elements in the Bali Road Map included:

- A decision on deforestation and forest management;
- A decision on technology for developing countries;
- The establishment of the Adaptation Fund Board
- The review of the financial mechanism, going beyond the existing Global Environmental Facility.

The Ad Hoc Working Group on Long-term Cooperative Action (AWG-LCA) was set up to conduct work under the Bali Action Plan. The Ad Hoc Working Group on Further Commitments for Annex I Parties under the Kyoto Protocol (AWG-KP) was to work in parallel. The central task of the AWG-KP was to decide the emission reduction commitments of industrialized countries after the Kyoto Protocol's first commitment period expired in 2012.

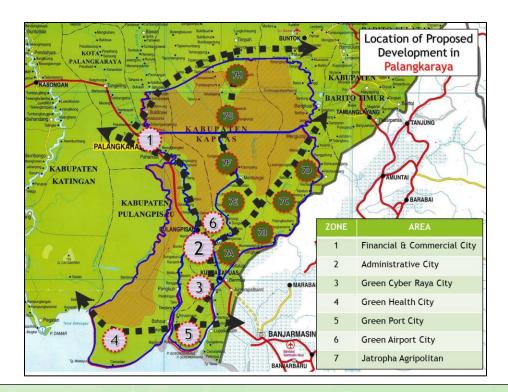






WHY BIONAS SELECTED INDONESIA?

- 1. Most suitable climates with huge land areas for Jatropha. The farmers are reliable and guaranteed monthly income from selling Jatropha harvest to Bionas will contribute in poverty eradication.
- 2. Stability in politics with full support from the local and federal government.
- 3. More than 250 Million population guaranteed the buying power.
- 4. The third Asian economy after China and India, plays a prominent role in the world economy to the point that contribute to 50% of the growth of the global economy over the next five years, according to ASEAN.
- 5. Strategic location near Straits of Malacca with deep sea offering new routes for the global shipping lines.
- 6. Indonesia is next to Singapore and located strategically in between of 2 oceans (Hindi and Pacific oceans) and 2 continents (Asia and Australia) offering new logistic and distribution centre for the global trading businesses.
- 7. Central Kalimantan is mostly flat lands and safe from natural disaster, earthquake and tsunami etc.

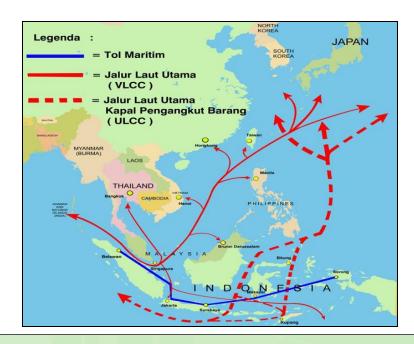






INDONESIA – WORLD CLEAN ENERGY HUB

- 1. The biggest producer in the world of Jatropha Seeds and Crude Jatropha Oil (CJO) by 2018.
- 2. The biggest producer in the world of Jatropha briquette and pallete by 2018.
- 3. The biggest producer in the world of jatropha base bio-additives for diesel, gasoline, heavy fuel, jetfuel, lubricant and coal by 2020.
- 4. A reputable Industrial "Center for Excellence" producing professional experts, chemists and engineers feeding the global clean energy needs and requirements to mitigate climate change and global warming.
- 5. The model of Jatropha Agro-politan Business Clusters developing and transiting Indonesia to be a developed country by 2025.
- 6. The model of Green City developing and transiting Indonesia to be the World Clean Energy Hub by 2020.
- 7. The model of e-Government system developing and transiting Indonesia to be a developed country by 2025.







BEHIND THE SUCCESS

