



2004 ~2015

JSW - THE TIMES OF INDIA
EARTH CARE AWARDS-2012
Awards For Excellence In Climate Change Mitigation & Adaptation

Executive Summery

HELP-O Eco Green Ltd is leading company in Sri Lanka to assist, planning & developing many environment friendly solutions in addressing waste management, alternative energy needs and sanitation through utilizing otherwise discarded waste materials to upgrade the green productivity.

The first program was begun in 2004 with Asia Foundation we could able to construct the biogas unit in “Karapitiya Hospital” because on that time they met a big problem that is there were no proper waste management program and because of that many massive problems were begun from this but finally in first time of the Asia we constructed a biogas unit in Hospital and problem were solved by the biogas unit and they have started to cultivate. Second program was community biogas program while on this time there were huge problem in Galle Municipal Area that is they could not able to manage the total waste generation and they dump it irregular way.

Another biogas construction program in “Gampaha Municipal area and also they had one of serious problem that is organic waste. We constructed 02 biogas units in their area that can dump 1000 KG per day and now from that unit they can generate energy and they use it. Now they expect to cultivate from organic fertilizer. And with the USAID support we could able to construct a biogas unit in Galle Municipal Council land for getting the biogas for their daily cooking purpose. With the support of various people we could able to implement many biogas programs in various places and various districts. HELP-O could able to consult to Cambodian Government about biogas construction.

At the moment we could implemented biogas units in Hospital Sector, Community Level, Private Sector, Hotel Sector, Government institutions in very success way. This is one of good and sustainable solution to waste problem and energy crisis. Through this program able to introduce renewable energy source for the various sectors in the country. We are implementing awareness programs for the beneficiaries through this we expect to aware them and implement proper program. HELPO Eco Green Ltd also upgraded the technology of the biogas. We are dreaming to expand the green & clean bio energy solutions while creating most favorable sensitive environment for all without harming to it.

Presenting Earth Care Award - 2012

The Earth Care Award - 2012 was presented to the Galle 'Help O Eco Green' Institute by the Indian Minister of Power and Energy, Dr. Veerappa recently.



This award was accepted by the Managing Director of Help O Care Institute, Chathura Welipitiya at a ceremony held at the Mayura Hotel, New Delhi.

	
<h2>Central Environmental Authority</h2>	
Consultant / Specialist for Technical Guidance	
<i>This is to certify that</i>	
<i>Help O Eco Green Limited</i>	
.....of	
<i>No 364/18 A, Samagi Mawatha, Dangedara, Galle.</i>	
.....	
Registered as a Consulting Agency for Technical Guidance on Pollution Control Activities for the year 2015	
Registration Number 07 / LM / Cons. / 78 / 2012  Director (EPC) Central Environmental Authority	Validity Period: From: 01.01.2015 to: 31.12.2015  Director General Central Environmental Authority

DESCRIPTION OF THE COMPANY

Help O Eco Green Ltd. is doing the consultancy for waste management in different sectors like Hospital, Hotel, industries etc. and Specialist in implementing biogas technology & waste water treatment. We are introducing environmental conservation methodologies to protect the environment. Our goals are lowering the carbon emission, turn the waste to a resource, improving sustainability and provide the energy source from wastage. We are providing service with the highly qualified technical staff under the supervision of construction engineer.

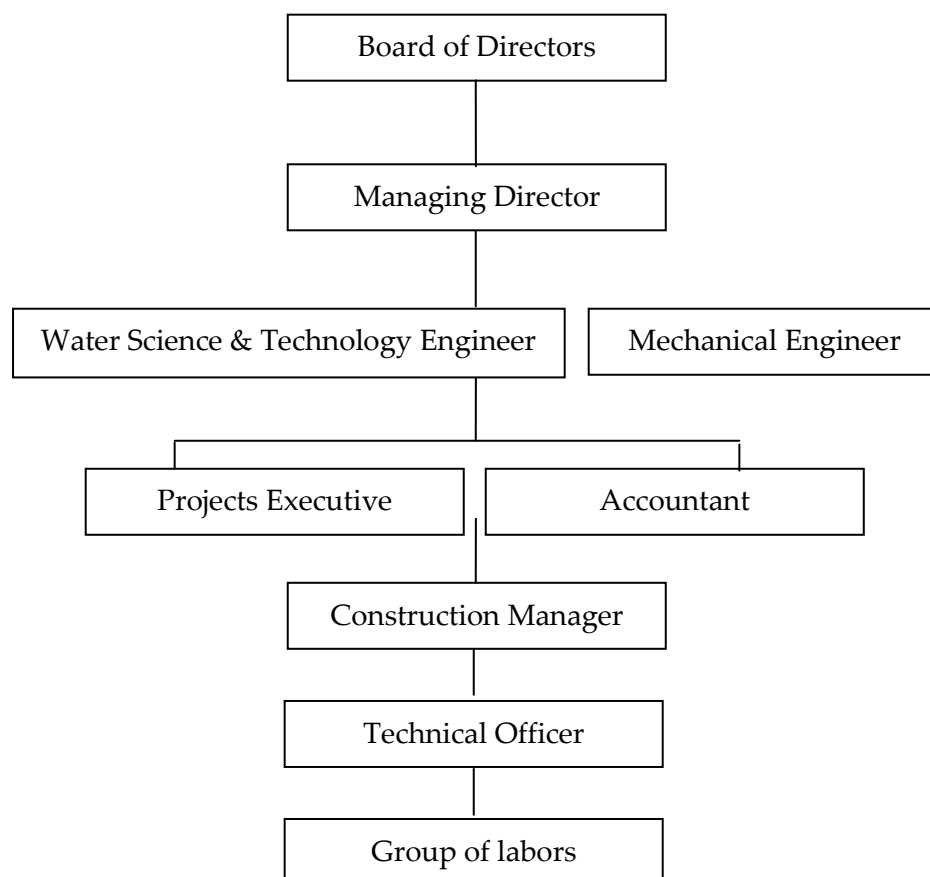
OUR VISION

“A World with Social Justice & Environmental Friendly Economic Development and Pioneers of the Eco Conservations”

OUR MISSION

“To Support Vulnerable Committees and The Organizations In Sri Lanka To Identify Their Needs, Consulting Their Issues and Advancing Professional Solutions Through Partnerships With The Stakeholders”.

ORGANIZATION CHART



HELP-O Eco Green Ltd has many years' experience about biogas construction field. The first biogas unit we have implemented in Karapitiya Hospital in year 2004 from, that day we implemented biogas units in different sectors as follows:

- Domestic level
- Community level
- Hospital sector
- Forces camp
- Hotel sector & factories
- Schools
- Government offices
- Municipal Council & Urban Council
- Religious places
- Market places

The organization developed the technology and introduced new mechanism to increase the efficiency of biogas. HELP O Eco Green Ltd could able to expand the program to overseas. We consulted to construct biogas units in Cambodian government and generate the electricity through the biogas. The organization developed the technology and introduced new mechanism to increase the efficiency of biogas. HELP O Eco Green Ltd provides the technical guidance and instructions continue even we have planned to issue a methane analyze report and green certificate for the different sectors.

The company has been successfully constructed biogas units at MAS Holding – Koggala Zone, Sri Lankan Airline – Katunayake, Youth Centre – Maharagama and Nature Secret – Horana are few of places that carry on biogas units in a very successful way. Not even that the company has been implemented many biogas programs in above sectors and those are implementing properly with multi benefits. Company has well trained staff for the process. We have been upgraded the technology after several surveys conducted with Engineering university and experts.

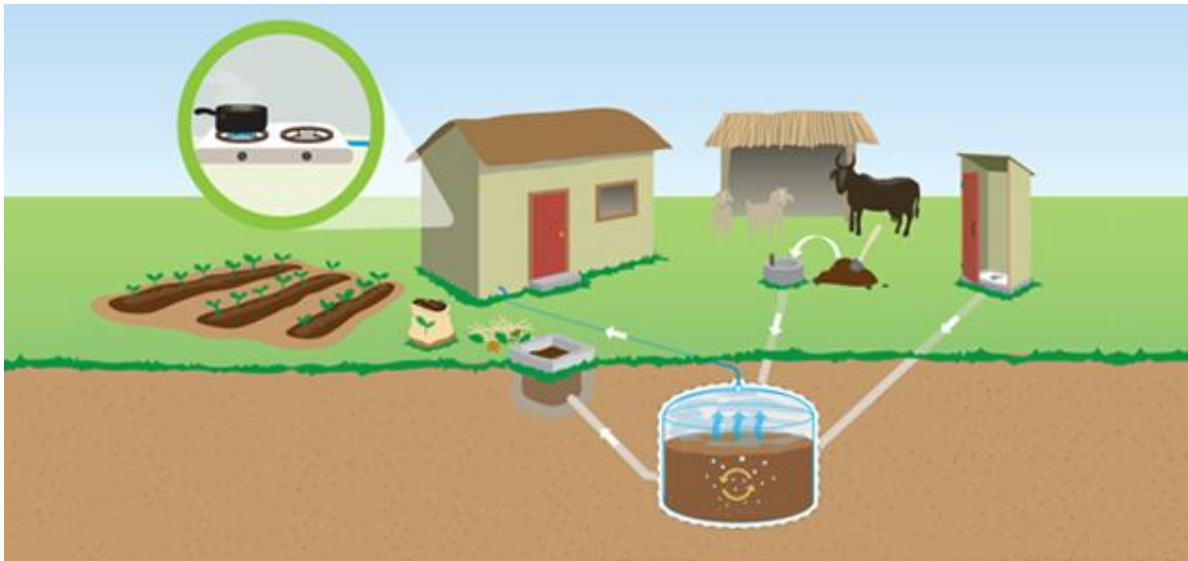
WHAT IS BIOGAS?

Biogas is a gas whose primary elements are about 65% of methane (CH₄) and about 35% of carbon dioxide (CO₂). It is a product of the natural decomposition of any organic substance of animal or plant origin due to the activity of anaerobic (functioning in a non-oxygen environment) bacteria.

BIOGAS PLANT IS SOLUTION TO MANAGE

- Food waste / households, restaurants
- Sludge / waste water plant
- Industrial waste / slaughterhouses, mills, breweries
- Residues from bio-fuels
- Residues or products from agricultural sector/ manure and crops
- Biomass from the sea/algae
- Residues or products from industry/ rest fibers, sludge

MODEL OF BIOGAS PLANT



BENEFITS OF THE BIO GASS PROJECT

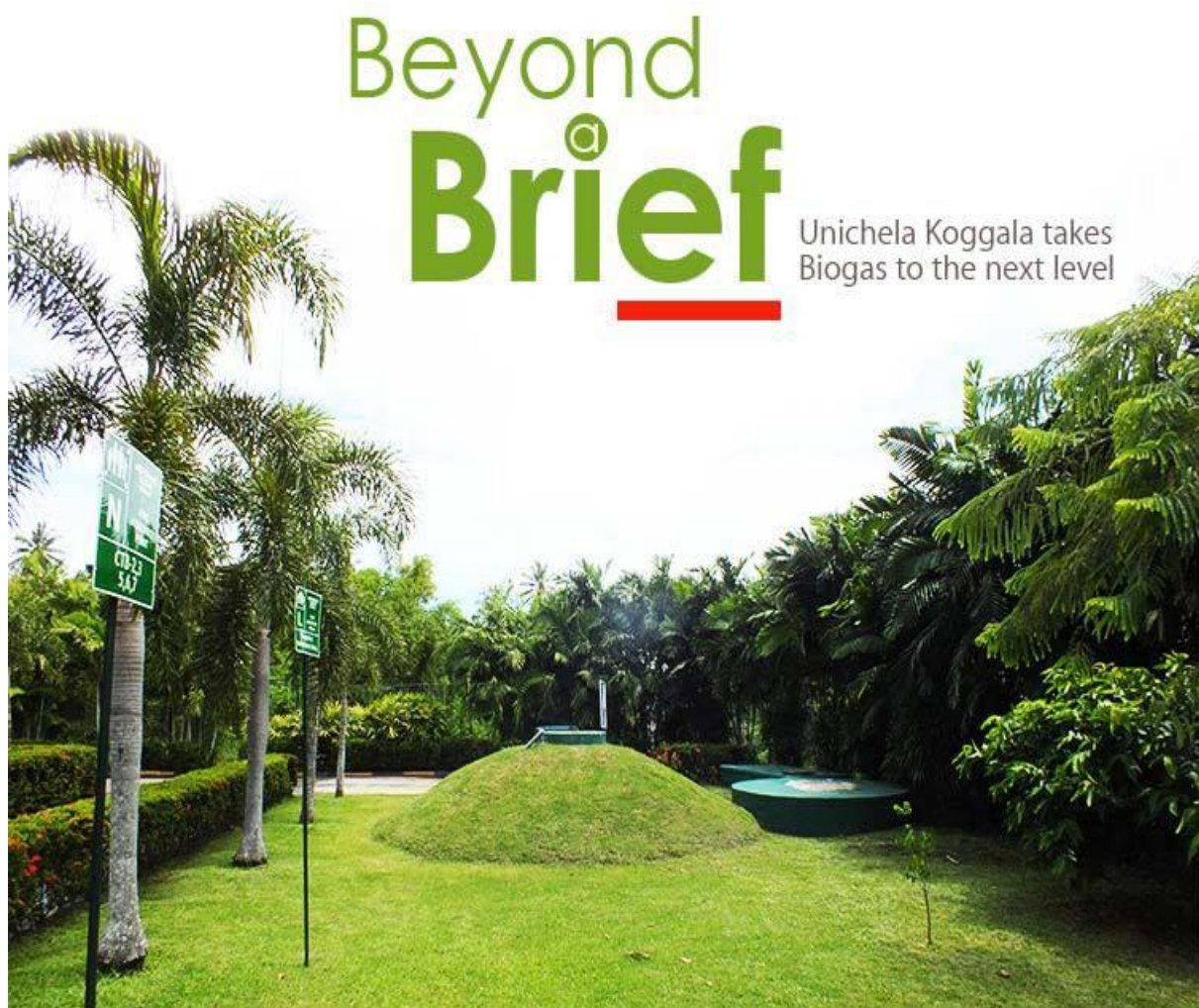
Under this project, we expect to convert the waste into resource by value adding to the waste. Through this integrated programme, you can get below mention outcomes.

1. Introduce more efficient way of organic waste management
2. Reduce LP gas cost
3. Alternate energy source
4. Increase the healthy environment of the place
5. To promote organic cultivation within the place
6. Decrease the diseases affected by the waste
7. Minimize the waste generation & irregular dumping
8. To waste becomes a resources
9. Minimize the methane gas emission to air
10. Minimize the soil, water & air pollution

Industrial Sector

MAS Holding – Koggala Unichela Garment Factory

Place	– MAS Koggala Unichela Factory
Location	– Koggala Southern Province
Year of implemented	- 2013
Capacity of Biogas	- 22m3
Contact No	- Mr. Sampath Ponnamparuma Engineer 077-2650688






In their 'Beyond a Brief' campaign, Unichela Koggala structured all their activities striving for excellence under 4 pillars;

-  Product
-  People
-  Process
-  Planet

Having a strong commitment towards 'investing in the environment to protect the planet', they identified food waste as a key focus area and selected a sustainable solution in the form of a biogas plant.

The Sustainability team at Unichela investigated the existing food disposal methods in relation to end results, transport and cost. They also looked into

-  Water availability
-  Water quality testing
-  Ground water level

The feasibility study for the project was carried out by the MAS team with the support of Chathura Welivitiya from Helpe Eco Green. With this information the MAS team was able to draw the conclusion that a fully functional biogas unit can safely be installed in Koggala.



Biogas
@
MAS



Biogas technology in Sri Lanka is still adapting to the local market requirements. Different models and processes are available in the market targeting different aspects of operations; some focus on gas generation and others provide excellent food waste disposal solutions.

Since the introduction of biogas into the MAS energy mix in 2012, many facilities have been interested in converting their food waste into a fuel. Our first biogas plant at Asialine was designed focusing on high gas yield to replace LPG whereas the newly commissioned unit at Unichela Koggala provides an ideal solution for food waste disposal with the added benefit of gas generation.

Future Drive

The Unichela team is planning an organic gardening project using the fertilizer produced through the bio-gas plant. The excess fertilizer will be distributed among the employees who are keen on organic farming.

Learn More

Sampath Ponnamparuma from the Unichela team will be happy to guide those who are interested in coming to grips with this technology. For more information on the project and to learn how this technology can benefit your SBU operation's environmental footprint, please contact Sampath on SanjeewaPo@masholdings.com



2013

Construction begins aiming for a 2014 commissioning.

March 2014

Initial feeding begins.

July 2014

The plant taking in 30 kg of food waste per day. In return the plant generates 10 cubic meters of biogas per week and is in route to generating 180 cubic meters every month for a daily input of 90 kg of food waste. The current daily gas generation is sufficient to fuel a single burner for 30 minutes every day.

After all, sustainability means running the global environment – Earth Inc. – like a corporation, with depreciation and maintenance accounts. In other words, keeping the asset whole, rather than undermining your natural capital and if you want creativity, take a zero off your budget. If you want sustainability, take off two zeros! In the 21st century, I think the LEADERS will be those who will improve the quality of life, fight poverty and introduce **more sustainability...**

Ranjan Madugalle | General Manager | Unichela Koggala

In addition to this, the biogas plant also generates a considerable amount of liquid and solid organic fertilizer.

Helpo Eco Green team and Dr. Chithral Ambewattha from the University of Ruhuna are supporting the Unichela team to ensure the system is operating smoothly.



Sri Lankan Airline – Katunayake

Place	– Sri Lankan Airline - Katunayake
Location	– Katunayake
Year of implemented	- 2012
Capacity of Biogas	- 35m3
Contact No	- Mr. Rasika Gamage Engineer 077-7725436 / 071-0212803



SriLankan Champions ENERGY OPTIMISATION AND FOOD PRESERVATION



Rasika Gamage, Facilities Manager, explaining the initiatives taken by the Go Green Team of SriLankan Airlines



Bio Gas plant opening by the Chief Guest Chanaka Olagama, HSD



Chief Guest, Chanaka Olagama, Head of Service Delivery addressing the gathering



The Bio Gas Plant at SriLankan Airlines premises

Joining the World Environment Day activities, SriLankan Airlines held its Environment Day on 5th June 2013, with Chanaka Olagama, HSD, as the Chief Guest.

Highlighting the airline's active contribution in preserving the environment, energy and optimising natural resources, a Bio Gas Plant and Solar Tubes were launched. The guests and the students, who participated were taken on field visits to show the Bio Gas Plant, which supplies gas for the SriLankan Airlines' main canteen and to the Engine Module shop, which is entirely lit using Solar Tubes. The Bio Gas Plant was an initiative of the Go Green Team and implemented by Properties and Facilities Department, through the external contractor, HELPO Eco Green Ltd. This project saves Rs. 810,000 per annum. The Solar Tubes too were a successful initiative by the Go Green Team and were implemented by Properties and Facilities Department through the external contractor, Sunpower Systems (Pvt) Ltd. The Annual savings of this project is Rs. 1 million.

Chanaka Olagama, HSD, emphasised the benefits the



Sampath Silva, Facilities Technical Foreman explaining how to make your own energy efficient LED bulb



Deepal Samarakoon, Hygiene and Quality Assurance Executive, SriLankan Catering, explaining food preservation to the school children

airline can gain through these environment friendly energy initiatives. Rasika Gamage, Facilities Manager gave an introduction to the initiatives taken by the Go Green Team to stabilise SriLankan Airlines as an energy efficient entity.

Awareness presentations were delivered on Bio Gas production process and food preservation. Chatura Welivita, Managing Director - HELPO Eco Green Ltd., presented the Bio Gas concept and the Project, highlighting the planet and the pocket-friendly nature of the scheme. The presentation on food preservation was done by Deepal Samarakoon, Hygiene and Quality Assurance Executive, SriLankan Catering, where the significance of food preservation was stressed on.

In addition to these, a demonstration was conducted by Sampath Silva, Facilities Technical Foreman of Properties and Facilities Department on 'How to make your own energy efficient LED bulb for Rs. 150. Students were gifted with a required component pack for them to make it by themselves.

Vice President of HELPO Eco Green Ltd. Amarasinghe Kudagallara, Presidential Coordinating Director (Special Investigations), members of the Senior Management including Major General P. Chandrawansa, Head of Group Security Logistics & Administration and Priyantha Rose, Head of Engineering and SriLankan staff were present at this occasion. This programme was definitely a memorable occasion for the students from

Minuwangoda Nalanda Boys' and Girls' Schools.

Members of the Go Green Team

Pradeepa Kekulawala
Supervising Head/Advisor

Capt. Anushad Liyanagoda
Championing Planet-friendly Flights

Buddhika Hewawasam
Championing Workplace Conservation and Waste Management

Rasika Gamage
Championing Energy Conservation and Optimisation

Sanduni Thudugala
Executive Green Projects/Event Coordinator

Dhanushka De Silva
Flight Ops Executive, Aviation Fuel



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Nature's Secret Company – Horana

Place – Nature's Beauty Creation Company
Location – Horana
Year of implemented - 2012
Capacity of Biogas - 22m3
Contact No - Ms. Chathurika Priyadarshani Chemist 0777-878391

Monitoring Bio gas consumption of NBC Ltd

Date	flow meter reading	used quantity of Bio gas(m3)
16/09/2013	12.555	
17/09/2013	13.505	0.950
18/09/2013	14.278	0.773
23/09/2013	18.375	4.097
26/09/2013	22.295	3.920
28/09/2013	29.275	6.980
30/09/2013	33.555	4.280
1/10/2013	35.565	2.010
2/10/2013	38.786	3.221
3/10/2013	42.410	3.624
4/10/2013	46.540	4.130
5/10/2013	51.510	4.970
8/10/2013	59.085	7.575
9/10/2013	62.165	3.080
21/10/2013	83.811	21.646
23/10/2013	85.615	2.502
24/10/2013	88.114	1.801
25/10/2013	90.250	2.136
28/10/2013	93.116	2.866
29/10/2013	95.231	2.115
30/10/2013	98.120	2.889
31/10/2013	100.212	2.092
01/11/2013	104.750	4.538
04/11/2013	107.800	3.050
05/11/2013	112.423	4.623
06/11/2013	118.610	6.187
07/11/2013	124.920	6.310
08/11/2013	129.230	4.310
11/11/2013	132.420	3.190
12/11/2013	135.350	2.930
13/11/2013	138.760	3.410

Thank You

121.235

Chathurika Priyadarshani
ISO chemist.
Nature's Beauty Creations Ltd.
P.O. Box 1, Millewa,
Horana, Sri Lanka
PH: +94-3422-61100
FX: +94-3422-53300

EM: iso@nbc.lk WEB: www.naturessecrets.lk

Sri Lankas Largest and only natural herbal cosmetic producer with ISO and GMP certified
ultra modern production facility

Youth Centre – Maharagama

Place	– Youth Council – Maharagama
Location	– Maharagama
Year of implemented	- 2013
Capacity of Biogas	- 22m3



H.E Ambassador of France visited to Youth council biogas unit

Hill garden Tea Factory – Baddegama

Place	– Hill Garden Tea Factory
Location	– Baddegama
Year of implemented	- 2012
Capacity of Biogas	- 35m3
Contact No	- Mr. Thusara Factory Manager - 077-2178788



Evergreen Tea Factory – Talgaswala Galle

Place	– Evergreen Tea Factory -
Location	– Talgaswala
Year of implemented	- 2012
Capacity of Biogas	- 35m3
Contact No	- Mr. Lasantha de Silva – 072-7000500



For more details – Video Documentary

[Evergreen Tea Factory - Galle Haritha Piyawara by HelpoEcogreen](#)

Navy Camp – dockyard - Trincomalee

Place	– Trincomalee Navy Camp - dockyard
Location	– Trincomalee
Year of implemented	- 2010
Capacity of Biogas	- 65m3
Contact No	- Dr Duminda - 0772517160



Kalpitiya Navy Camp - Ellueankulama

Place	– Kalpitiya Navy Camp
Location	– Elluwankulama
Year of implemented	- 2014
Capacity of Biogas	- 45m ³
Contact No	- Dr Duminda - 0772517160



For more details – Video Documentary

The Island's

[HELP – O hand in setting-up standards for bio-gas plants](http://www.island.lk/index.php?page_cat=article-details&page...code...)

www.island.lk/index.php?page_cat=article-details&page...code...

Karapitiya Hospital

HELPO ECO GREEN LTD

Place	– Karapitiya Teaching Hospital
Location	– Karapitiya
Year of implemented	- 2004
Capacity of Biogas	- 22m3
Contact No	- Dr Sheltan Perera – Director 0773742688



Fonterra Brands Lanka (Private) Limited



Place – Fonterra Brands Lanka (Private) Limited
Location – Delgoda Road, Biyagama
Year of implemented - 2004
Capacity of Biogas - 22m3
Contact No - General +94 11 2468546 (ext 597),
Fax +94 11 2468551



MAS Unichela – Panadura



Place	– MAS Unichela Panadura Factory
Location	– No.124, Horana Road, Panadura, Sri Lanka
Year of implemented	- 2016
Capacity of Biogas	- 35m3
Contact No	- Mr. Janaka Priyadarshana -

Hiadaramany (Pvt.) Ltd. – Kahathuduwa



Place	– Hiadaramani (Pvt.) Ltd.
Location	– Kahathuduwa
Year of implemented	- 2016
Capacity of Biogas	- 80m3
Contact No	- Mr. Priyantha Gamage

The other Biogas units constructed			
Name	Area	Contact	Size
1. International Buddhist Centre	Kaluwella Galle	Ven.Kanumuldeniye Chandrawimala Thero. 091 2222337 091 4428272	12 m ³
2. Karapitiya Hospital	Galle	Director 0912232250	22m ³
3. Gampaha Municipal Council	Gampaha	033-2222275 033-2234390 (Hon Mayaor) 071 7925455-Mr.Raman	22m ³
4. Beliatta Aurvedic Hospital	Belliatta, Hambantota	0412251164	35m ³
5. Hareesha Hotel	Yakkalamulla	072-5237662- Mr.Reg De Silva(Manager) Tel.091 5630573 Fax.091 5678556	22m ³
6. Jungle Beach Hotel	Trincomalee	Mr.Shiwa 077 2020529	22m ³
7. Ulagalla Resort	Anuradhapura		18m ³
8. Oversees Hotel	Sisilagama, Hambantota		22m ³
9. Ampitiya PS Biogas unit	Ampitiya		22m ³
10. Gampola Slaughter house biogas unit	Gampola	Hon chairman / 081-2352275 Environment officer Or Secretary 081-5674649	22m ³
11. Gampola PS Biogas unit	Gampola	Hon chairman- 081-2352275 Environment officer Or Secretary-081-5674649 075 6941840-Mr.Bandara uggampola@yahoo.com	22m ³
12. Andaradeniya Tea Factory	Batuwangala, Nellsuwa		65m ³
13. Cambodian government biogas units	Nompen, Kambodia		
14. Negombo Community biogas unit	Dombosko village, Negombo		22m ³

15. Jaffna Muttuthambi school biogas unit	Jaffna		22m ³
16. Dilmah Conservation –	Moratuwa		15m ³
17. Siyako Yoghurt company	Trincomalle	0772411959	15m ³
18. Trincomalee Naval base biogas unit	Trincomalle		65m ³
19. Ganga ehala Korale PS Biogas unit	Ampitiya		22m ³
20. Matara Convent Biogas unit	Matara	071 1648431 Sis.Sandamali Kurera	22m ³
21. Don Bosco Church Biogas unit	Negambo	077 9762848 Farther Dickson	22m ³
22. Galle Dakshina Navy base biogas unit	Galle	Tel. 2232180/2234587 Fax. 2245954	22m ³
23. Samantha Hotel biogas unit Galle	Galle		18m ³
24. Moragoda Community biogas unit Galle	Galle		22m ³
25. Ruhunu Hospital PVT- Galle	Galle	Mr.Nilufer/ leonilu@yahoo.com 0772370324-	44m ³
26. Villuda inn hotel biogas unit	Pannipitiya		22m ³
27. Udugama Base Hospital Biogas unit	Udugama	071-8418305 – Dr.Karunarathne	22m ³
28. Mathale Hospital Biogas unit	Mathale	066-2223627 Dr.Arjuna-Director 071- 8308011- Dr.Wwasanthi	22m ³
29. Sambodhi Home Biogas unit	Magalle , Galle	091 22 26 423 077 97 01 252	22m ³
30. Constructed 20 domestic biogas units			
31. Fonterra Brands Lanka (Private) Limited	100, Delgoda Road, Biyagama 11650, Sri Lanka	General +94 11 2468546 (ext 597), Fax +94 11 2468551	50 m ³

Additional details of company follow the link

[Eco Gas Documentary](#)

[Help O Sri Lanka](#)

[Helpo Ecogreen Won the Earth Care Award 2012](#)

[Evergreen Tea Factory - Galle Hariitha Piyawara by HelpoEcogreen](#)

Capacity of Plant	Waste Feeding Capacity (per day)	Bio gas Production (per day)	Required Space to Construction (ft)
6m ³	15kg	3m ³	20×10
8m ³	25kg	4m ³	22×10
10m ³	50kg	5m ³	24×12
12m ³	100kg	6m ³	25×13
15m ³	150kg	7m ³	28×16
22m ³	500kg	11m ³	32×19
35m ³	650kg	16m ³	35×21
44m ³	750kg	22m ³	38×22
65m ³	1000kg	32m ³	44×24

REDUCE YOUR WASTE TO MITIGATION & ADAPTATION FOR CLIMATE CHANGE

Implementation by: **HELPO ECO GREEN LTD**
PIONEERS OF ECO CONSERVATION
No.364/18 A, Samagi Mw, Dandegara, Galle, Sri Lanka
Tele / Fax: 091-4380121, 091-2226818
Email: helpoecogreen@sitnet.lk Web: www.helpoecogreen.com

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EARNING THROUGH THROWING WASTE
HELPO ECO GAS SOLUTIONS

MIRACLE OF ORGANIC WASTE

HELPO ECO GREEN LTD
Pioneers of Eco Conservation
CEA Registered Consultants /Specialists

Winner of Earth Care Award-2012
JSW - THE TIMES OF INDIA
EARTH CARE AWARDS-2012
Award for Excellence in Green Group Register & Register

EXPERIENCES IN DIFFERENT FIELDS

WASTE TO ECO GAS SOLUTIONS

Instead of spending money for waste disposal, you can generate Bio energy and electricity and from organic waste to save the nature by reducing emission while ensuring the environment sustainability

APPLICATIONS
Food industries
Agro industries
Slaughter houses
Waste water plants
Farms and Domestic
Institutions

INPUTS
Communal organic waste (household waste)
Green and plant waste
Industrial food waste (organic material, process water)
Communal sewage sludge
Animal farms waste

USES OF BIOGAS

WHY WE GO FOR ECO GAS SOLUTIONS

Lower LPG Cost
No Electricity Cost
Pure Blue Flame
No Carbon Emission
No bad smell
Free Organic Fertilizer
Zero Methane Emission
Green Certification