



## **Immediate Release**

### **Sembawang Shipyard's Inaugural Green Wave Environmental Care Project For Schools Award Presentation Ceremony**

Singapore, November 27, 2003 - Sembawang Shipyard Private Limited, a subsidiary of SembCorp Marine Ltd, is pleased to announce the inaugural Green Wave Environmental Care Project for schools award presentation ceremony at Tudor Ballroom Room, Goodwood Park Hotel.

Our Guest-of-Honour for this milestone event is Mr Lim Swee Say, Minister for the Environment. Sembawang Shipyard's "Green Wave" Environmental Care Project was launched in January 2003 and was opened to all students at Primary, Secondary, Junior Colleges / Centralised Institutes / Institute of Technical Education (ITE) and Tertiary Institutions. This project targets at students as we believe that if we can successfully inspire and motivate young minds to think innovatively and adopt advanced technologies on environmental protection and improvement, we are on the right path towards making Singapore into a center for environmental development in our part of the world and making our planet a better place. This competition will be offered to schools on an annual basis.

During the ceremony, a total of 17 awards were presented by Mr Lim Swee Say, Minister for the Environment to the winning teams. (See Appendix 1 and Appendix 2). Besides presenting the awards to the winners, Mr Lim Swee Say, Minister for the Environment jointly unveiled the Green Wave Environmental Competition for 2004 with Mr Heng Chiang Gnee, Chairman of Sembawang Shipyard Pte Ltd. Next year's competition promises to be even more exciting and challenging, with bigger awards lined up and joint sponsorships from BP Shipping and Shell Trading. Winning teams can expect the following attractive awards:

<u>Primary Schools:</u>	1 <sup>st</sup> Prize:	S\$ 4,000
	2 <sup>nd</sup> Prize:	S\$ 2,000
	3 <sup>rd</sup> Prize:	S\$ 1,000

<u>Secondary Schools</u>	1st Prize:	S\$ 6,000
	2 <sup>nd</sup> Prize:	S\$ 4,000
	3 <sup>rd</sup> Prize:	S\$ 2,000

Junior Colleges, ITEs

<u>&amp; Centralised Institutes</u>	1st Prize:	S\$ 8,000
	2 <sup>nd</sup> Prize:	S\$ 5,000
	3 <sup>rd</sup> Prize:	S\$ 3,000

<u>Tertiary Institutions</u>	1st Prize:	S\$10,000
	2 <sup>nd</sup> Prize:	S\$ 6,000
	3 <sup>rd</sup> Prize:	S\$ 4,000

The prize money for the Primary, Secondary and Junior Colleges/Centralised Institutes and ITEs would be shared on a 60%-40% basis with 60% of the prize award going to the School fund and the remaining 40% to the student/students who are in the project team.

We are pleased to announce that commencing from 2004, Shell Trading will jointly sponsor the Top Prize of S\$10,000 for the Tertiary level competition. Additionally, the top prize-winner's team leader or member for the Tertiary Level will also have the opportunity for a one-month developmental attachment with Shell Trading. BP Shipping will also jointly sponsor the Top Prize of S\$8,000 in the JC/ITE/CI level of competition and this award will include a one-month developmental attachment with BP Singapore. Winners of the top prizes at the JC/ITE/CI and Tertiary levels will also be offered job attachments with Sembawang Shipyard in divisions such as engineering, IT, human resources and business.

We are grateful to our Guest-of-Honour, Mr Lim Swee Say, Minister for the Environment for gracing this milestone event and for presenting the awards to the winners. Our sincere appreciation to the Ministry of Education, schools and tertiary institutions, judges for the competition from Ministry of Education, NUS, NTU, NIE, Singapore Environment Council and Heads of Departments of schools and student participants, for their enthusiasm and assistance. We would also like to thank our Alliance partners namely Shell International Trading and Shipping Company Limited, BP Shipping, BHP Billiton, Jo Tankers and Alaska Tanker Company for their strong support and encouragement of this project.

### **About Sembawang Shipyard**

Sembawang Shipyard Pte Ltd is a wholly-owned shipyard of SembCorp Marine, the marine engineering arm of SembCorp Industries. Sembawang Shipyard has one of the largest integrated ship repair facilities in Southeast Asia. The shipyard's world-class reputation is based on the company's commitment to superior customer service, innovative solutions, quality, health safety and environment care.

Sembawang Shipyard has more than three decades of experience and proven track record in ship repair and offshore conversions, servicing an average of 200 vessels of all types annually for an international clientele in the oil, bulk, chemical and gas trades. In particular, Sembawang Shipyard is the chosen exclusive alliance shipyard for Shell International Trading and Shipping Company Limited (UK), BP Shipping (UK), BHP Billiton (Australia) and Jo Tankers AS (Norway), for the repairs and refits of their fleets in the Far East. Additionally, Sembawang Shipyard's other long-term partners includes Tschudi & Eitzen Shipmanagement AS (Norway), Alaska Tanker Company (USA) and V Ships (Monaco).

Besides the traditional sectors of tankers and bulkers, Sembawang Shipyard is a recognised specialist in niche markets of passenger ship conversions/refurbishment, FPSO/FSO conversions, offshore vessels conversions, complex lengthening conversions, chemical tankers, liquefied gas carriers, dredgers, offshore rigs and navy ship repairs.

In July 2002, Sembawang Shipyard became the first shipyard in South East Asia to achieve ISO14001 Environmental System Certification by Det Norske Veritas Ltd. The certification is a firm endorsement of the shipyard's commitment and efforts towards environmental preservation and protection. As such, the shipyard is pleased to be the first in its industry in Singapore to promote the environmental care and protection project for all schools in Singapore.

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## APPENDIX 1

The winners for the Green Wave Environmental Care competition for 2003 are:

### (A) PRIMARY LEVEL

Prizes	School	Title of Project	Participants
1 <sup>st</sup> Prize S\$4,000	Corporation Primary	Towards a more colourful environment	Mohamed Hafeez Bin Mohamed Azmi, Gary Ong Wei Kiat, Ang Zhi Zhong, Lie Ming Chang, Mohamed Hamka Bin Mohamed Azmi and Tan Jun Yup
2 <sup>nd</sup> Prize S\$2,000	Princess Elizabeth Primary	Operation Myna	Shiah Jing Yun, Lu Boon Ping, Ko Hock Seng, Lee Wee Cheng, Triton Chan Kar King, Shawnald Lee Hong Heng
3 <sup>rd</sup> Prize S\$1,000	Corporation Primary	Storage and usage of collected rain water in new estate	Tan Li Yan, Tan Yan Shuang, Emily Ang Li Ting and Ang Wan Teng

### (B) SECONDARY LEVEL

Prizes	School	Title of Project	Students
1 <sup>st</sup> Prize S\$6,000	Tanjong Katong Girls'	Removal of gaseous pollutant using natural membrane	Liang Jiaming, Chen Qiao Yi, Wang Xiao Yan, Janice Yio Lee Chien, Qiao Li, Fang Yixuan and Sun Lu
2 <sup>nd</sup> Prize S\$4,000	Raffles Institution	An economical composter to produce fertilizer for gardening in our school	Arjunan Edward Kumaran Graetz, Ong Han Yang, Bai Zhixiang, Girider Swaminathan
3 <sup>rd</sup> Prize S\$2,000	Nanyang Girls' High School	Preservation of Forest	Bernice Chan Choi Wai, Elissa Tan Shimin, Sarah Tan Eu Mei and Daphne Tan Hwee Mei
3 <sup>rd</sup> Prize S\$2,000	Bedok Town Secondary	Balance modern needs with environmental protection	Amous Khoo Yu Ting

**(C) JUNIOR COLLEGE / INSTITUTE OF TECHNICAL EDUCATION/  
CENTRALISED INSTITUTE LEVEL**

<b>Prizes</b>	<b>School</b>	<b>Title of Project</b>	<b>Students</b>
2 <sup>nd</sup> Prize S\$5,000	ITE Balestier	Recycled CD Player	Leong Chee Keong and Min Kumar Gurung
3 <sup>rd</sup> Prize S\$3,000	ITE Dover	Smart Bin	Xu Xing Guo, Muhamed Ekhsan Bin Mohamed Mustafa Kamal, Ang Hui Yun, Kevin Tan Guan Ming, Au Xing You
Merit Award S\$1,000	Serangoon JC	Reduce domestic waste through MIR way	Nilesh J Parekh, Lim Han Seong and Bernard Lim Jian Cai
Merit Award S\$1,000	Yishun JC	Millennia Lodge 2020	Lee Kwang Siong, Simon Ho Shi Ning, Huang Fuji Happy Wijaya, Muhammad Mateen Bin Jumli, Eugene Tan, Lee Kwang Siong, Alex Lim Kait Wee, Lim Kiam Ho, Ezekiel Chen Yuanwei, Joseph Can Wan Pei, Joseph Chen Sihan, Mandy Chew Soo Mian, Ivena Chin Kai Yi, Ng Hwan Khim, Wilson Quah Soon Aik, Lee Hong Kai, Peh Pey Shyuan, Sun Haozhe, Audrey Han Ming Rong, Sheena Yang Qingling

#### (D) TERTIARY LEVEL

Prizes	School	Title of Project	Students
2 <sup>nd</sup> Prize S\$6,000	Ngee Ann Polytechnic	Rainwater Collection System	Alex Quek Aik Kwang, Robin Tan Rongpeng, Teo Ker Wei and Aric Teo Kian Guan
3 <sup>rd</sup> Prize S\$4,000	Ngee Ann Polytechnic	Solar Power Trash Skimmer	Wong Ban Leong, Shankar s/o Narayanasamy, Chow Poh Seng and Tan Kar Chai
Merit Award S\$1,000	Singapore Polytechnic	Eco Facade	Pamela Chew Sui Ying and Ng Wheng Yen
Commendation Award S\$500	Singapore Polytechnic	Atmospheric Renewer – The Environmental Controller in an Urban context	Alvin Oh Szu Chuang
Commendation Award S\$500	Ngee Ann Polytechnic	Compressed Natural Gas (CNG) Vehicle	Catherine Chee Siew Yi, Chua Chiew Leong and Winson Djie Kwang Wee
Encouragement Award S\$200	Ngee Ann Polytechnic	McGas Tank	Ng Wai Ling and Tng Ren He

*(Results of the Green Wave Environmental Care Competition can be found on <http://www.sembship.com/greenwave>. Attached, is a copy of the publicity poster for the “Green Wave” Environmental Care Competition 2004, which will be distributed to all the schools and tertiary institutions in Singapore).*

## APPENDIX 2

### Summary of the winning projects :

#### (A) PRIMARY LEVEL

Prizes	School	Title of Project	Students
1 <sup>st</sup> Prize S\$4,000	Corporation Primary	Towards a more colourful environment	Mohamed Hafeez Bin Mohamed Azmi, Gary Ong Wei Kiat, Ang Zhi Zhong, Lie Ming Chang, Mohamed Hamka Bin Mohamed Azmi and Tan Jun Yup
<b>Project Summary</b>	<p>Due to rapid urbanisation, more trees and plants are cleared and the number of species of butterflies have been decreasing as their habitats are destroyed. To prevent the number and the species of butterflies from declining further, the team decided to embark on the Butterfly Conservation Project in their school. Under this conservation project in the school, the team created a conducive environment for the insects by growing their food plants for both the adults and the young. The team also looked at various ways to protect the butterflies from their predators. A special notice board on the Butterfly Conservation Project was also set up the school to share the details and findings of the project and to encourage other students to join the team in their conservation effort. The team hopes to attract different species and more butterflies to their school with the conducive environment created.</p>		
2 <sup>nd</sup> Prize S\$2,000	Princess Elizabeth Primary	Operation Myna	Shiah Jing Yun, Lu Boon Ping, Ko Hock Seng, Lee Wee Cheng, Triton Chan Kar King, Shawnald Lee Hong Heng
<b>Project Summary</b>	<p>The team set out to study how the myna is a pest and how its population can be managed without it being a threat to our environment. Firstly, the team gathered evidence that the myna is a pest through its droppings that may spread diseases and damage our Singapore's garden-city image. The team also investigated how myna caused disturbances by roosting at night. Secondly, the team explored ways to reduce the number of myna. The team's conclusion is that besides limiting the myna's food supply and reducing the number of their favourite roost trees, a study could be done on the effectiveness of culling by shooting.</p>		

Prizes	School	Title of Project	Students
3 <sup>rd</sup> Prize S\$1,000	Corporation Primary	Storage and usage of collected rain water in new estate	Tan Li Yan, Tan Yan Shuang, Emily Ang Li Ting and Ang Wan Teng
<b>Project Summary</b>	<p>The team looked at how rainwater can be stored and utilised for home consumption in the New Estates such as in Ang Mo Kio, Yishun etc. The main idea is to make use of the space on the rooftops to store rainwater as Singapore is a land-scarce country. The team proposed to build a water tank with an open top to collect rainwater, connect it to water pipes, which would be linked to the home toilets. Hence, the rainwater collected can be used immediately to flush toilets and without the need for any special water process system.</p>		

### (B) SECONDARY LEVEL

Prizes	School	Title of Project	Students
1 <sup>st</sup> Prize S\$6,000	Tanjong Katong Girls'	Removal of gaseous pollutant using natural membrane	Liang Jiaming, Chen Qiao Yi, Wang Xiao Yan, Janice Yio Lee Chien, Qiao Li, Fang Yixuan and Sun Lu
<b>Project Summary</b>	<p>Gaseous pollutant can take the form of sulphur dioxide, nitrogen oxide and many others. These could lead to deterioration in Singapore's air quality. The team's proposed strategy to combat air pollution is to remove the gaseous pollutants by either chemical or physical means. Two main objectives of the team's experiment are firstly, to look into the possibility of using orchid roots as a natural membrane to remove sulphur dioxide and secondly, to review and study the effects of chemically enhanced orchid roots for the removal of the sulphur dioxide.</p>		

<b>Prizes</b>	<b>School</b>	<b>Title of Project</b>	<b>Students</b>
2 <sup>nd</sup> Prize S\$4,000	Raffles Institution	An economical composter to produce fertilizer for gardening in our school	Arjunan Edward Kumaran Graetz, Ong Han Yang, Bai Zhixiang, Girider Swaminathan
<b>Project Summary</b>	Singaporeans produce tonnes of waste everyday, which is incinerated, polluting the air and filling landfills. Much of this waste produced is biodegradable such as food waste and dead plant matter and these could be put to better use through composting. Composting is a relatively new idea in Singapore and if implemented, could potentially lead to several benefits and more importantly, could contribute towards protecting our environment. The team designed a prototype of an economical composter for use in their school, using plant matter to produce humus, which could be used as a fertilizer for gardening in the school. The use of humus as fertilizer could also reduce the school's costs in the purchase of fertilizers for gardening.		
3 <sup>rd</sup> Prize S\$2,000	Nanyang Girls' High School	Preservation of Forest	Bernice Chan Choi Wai, Elissa Tan Shimin, Sarah Tan Eu Mei and Daphne Tan Hwee Mei
<b>Project Summary</b>	The objectives of the project are to highlight the dreadful consequences of deforestation, to come up with innovative ways to help people recycle materials that are primarily were derived from trees and to look into possible solutions to deforestation.		
3 <sup>rd</sup> Prize S\$2,000	Bedok Town Secondary	Balance modern needs with environmental protection	Amous Khoo Yu Ting
<b>Project Summary</b>	Due to convenience and for hygienic reasons, many people prefer to use disposables materials. This project proposed to balance the modern needs of people and the environment protection. Trees protect our environment by preventing soil erosion and provide shelter for plants and animals. It also exchanged oxygen and carbon dioxide to renew our air. Hence, trees need to be protected as they are used to make the wooden disposable chopsticks throughout the world. To save wood, this project designed and created a two part chopsticks, 2/3 recyclable and 1/3 disposable. This method could save 66% of the wood. By only using 33% of the wood, the replanting program can be sustained for long term use.		

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CENTRALISED INSTITUTE LEVEL**

<b>Prizes</b>	<b>School</b>	<b>Title of Project</b>	<b>Students</b>
2 <sup>nd</sup> Prize S\$5,000	ITE Balestier	Recycled CD Player	Leong Chee Keong and Min Kumar Gurung
<b>Project Summary</b>	<p>Very frequently people just throw away their ‘Old’ or ‘out-dated’ or faulty Personal Desktop Computers with no intention of sending for repair or upgrading due to the hassle of transporting the PC and the high cost of repair and upgrading. Many of these ‘Old’ or faulty PCs landed in the rubbish dump waiting for the Scrap-Metal man to come and salvage the metal parts to be melted down and recycled, not realising that some of the other devices may still be in working condition and can be salvaged and recycled too. This project looked at how old PC’s Power Supply, CD-ROM drive, active speakers can be salvaged and converted into a Mini-Compact Disk player of reasonable sound quality for audio entertainment at home.</p> <p>With this project, money can be saved from buying a new Mini-CD player audio system. The raw materials for the production of these equipments can be saved and reduced because they can be recycled. There will be an overall savings in terms of lower cost of raw material production, procurement and consumption in the electronics and steel industries.</p> <p>We may in our small little ways help to minimise the waste disposal problem as this is a big global problem and was highlighted in “THE STRAITS TIMES” papers on the Friday, June 20, 2003.</p>		
3 <sup>rd</sup> Prize S\$3,000	ITE Dover	Smart Bin	Xu Xing Guo, Muhamed Ekhsan Bin Mohamed Mustafa Kamal, Ang Hui Yun, Kevin Tan Guan Ming, Au Xing You
<b>Project Summary</b>	<p>Used metallic drink cans can be sold for recycling purposes, thus it is worth the while to sort out the cans from other trash. This sorting process can be tedious and Smart Bin can be the solution. Smart Bin is “smart” to sort out metallic cans and non-metallic, for instance plastic bottles. Besides, the Smart Bin can displace the sorted items into separate containers, which are removable and items can be recycled. This prototype can also be used as an educational tool to promote a clean and green environment amongst our young in an entertaining and fun way. On a bigger scale, Smart Bins can be placed in food courts to inculcate the good habit of recycling.</p>		

Prizes	School	Title of Project	Students
Merit Award S\$1,000	Serangoon JC	Reduce domestic waste through MIR way	Nilesh J Parekh, Lim Han Seong and Bernard Lim Jian Cai
<b>Project Summary</b>	<p>The team proposed a waste management system aimed to provide sustainability and to reduce domestic waste in Singapore. The <b>Management in Incineration and Recycling</b> (The <b>MIR</b> Way) is based on setting up an efficient Computerized control and Monitoring Waste Processing System (<b>CMWPS</b>) in every estate in Singapore. Each <b>CMWPS</b> consists of an underground mini-incineration plant; recycle storage and plants for composing organic wastes; all running under a computerized-control and monitoring system.</p> <p>The common refuse chutes in HDB flats are compartmentalized into food wastes and recycling wastes, each of which is connected through underground pipes to the <b>CMWPS</b> through underground pipes, are built in wet markets, shopping centers and food centers. A weight sensitive compartment is built to store all recyclable materials such as papers and cans in schools. A sensor will be activated in <b>CMWPS</b> when the compartment reached a specified weight, and private collectors will be deployed to collect the waste from the schools.</p> <p>Additionally, the team also proposed a web portal to be set up to provide environmental statistics and information on each particular estate. The portal also serves as the communication hub for buyers and sellers of recyclable wastes and the by-products of composing organic wastes.</p>		

<b>Prizes</b>	<b>School</b>	<b>Title of Project</b>	<b>Students</b>
Merit Award S\$1,000	Yishun JC	Millennia Lodge 2020	Lee Kwang Siong, Simon Ho Shi Ning, Huang Fuji Happy Wijaya, Muhammad Mateen Bin Jumli, Eugene Tan, Lee Kwang Siong, Alex Lim Kait Wee, Lim Kiam Ho, Ezekiel Chen Yuanwei, Joseph Can Wan Pei, Joseph Chen Sihan, Mandy Chew Soo Mian, Ivena Chin Kai Yi, Ng Hwan Khim, Wilson Quah Soon Aik, Lee Hong Kai, Peh Pey Shyuan, Sun Haozhe, Audrey Han Ming Rong, Sheena Yang Qingling
<b>Project Summary</b>	<p>Our lifestyles and needs have changed tremendously over the years and as we enters into the new millennium. These changes have also led to the development of revolutionary ideas to meet the needs of our changing lifestyles. For instance, home concepts. In the near future, homes will be combination of shopping mall, school, workplace and houses and other facilities. Although similar “one-stop” home concept has been introduced in Singapore, they are unconsciously depleting the earth of its precious non-renewable resources. Hence, this project proposed the design of an intelligent estate that would suit the Singaporean families’ lifestyle and needs in 15-20 years time, without causing unnecessary harm to our environment.</p>		

**(D) TERTIARY LEVEL**

<b>Prizes</b>	<b>School</b>	<b>Title of Project</b>	<b>Students</b>
2 <sup>nd</sup> Prize S\$6,000	Ngee Ann Polytechnic	Rainwater Collection System	Alex Quek Aik Kwang, Robin Tan Rongpeng, Teo Ker Wei and Aric Teo Kian Guan
<b>Project Summary</b>	<p>This project involves the design and fabrication of a system for collecting rainwater. The aim is to recycle rainwater for flushing toilet. During the first minute, the rainwater is drained off into the drain. The horizontal diversion valve with a ball locates inside, will automatically close in one minute as rainwater flows. Clean rainwater is diverted to rainwater barrel. When someone flushed the toilet, the sensor in water cistern transmits signal to activate water pump to pump rainwater from barrel to water cistern. Potable water from PUB will flow into water cistern if water level in barrel is low. This system does not require any human interference while it is under operation.</p>		
rd Prize S\$4,000	Ngee Ann Polytechnic	Solar Power Trash Skimmer	Wong Ban Leong, Shankar s/o Narayanasamy, Chow Poh Seng and Tan Kar Chai
<b>Project Summary</b>	<p>CleanCat is an innovative solar-electric powered, remote controlled catamaran, which skims on the water collecting floating debris. The 5 m long catamaran has a maximum speed of 3 knot. The vessel can operate closest to the shore. The debris float onto a conveyor, which then moves up into the trash net inside the trash bin located at the aft. The trash net enables easy removal of collected trash. Any one with less than an hour of training can operate the vessel having a radio control range of 400 m. The vessel has been tested in sheltered seawater and the test results are extremely satisfactory. Primarily meant for the rivers, this design can be easily modified to suit different operational requirements e.g. cleaning reservoirs, ports etc.</p>		
Merit Award S\$1,000	Singapore Polytechnic	Eco Façade	Pamela Chew Sui Ying and Ng Wheng Yen
<b>Project Summary</b>	<p>This project is targeted at preserving old residential and commercial developments by challenging the plan of demolition by changing the façade so as to give these old buildings a new lease of life. The proposed pre-fabricated façade with each component corresponding ecologically to our tropical environment. Two types of facades were designed in this project, one for commercial and the other for residential.</p>		

Prizes	School	Title of Project	Students
Commendation Award S\$500	Singapore Polytechnic	Atmospheric Renewer – The Environmental Controller in an Urban context	Alvin Oh Szu Chuang
<b>Project Summary</b>	<p>The atmospheric renewer is a sustainable and environmentally friendly residential development proposed near the heart of Singapore’s retail hub. With the existing site condition and environmental influences as the concept, the corridors of the condominium are transformed into gardens in the sky, providing an eco-friendly statement efficiently without compromising its primary purpose of pedestrian commuting. The garden corridor is an ecological system itself that incorporates rainwater management, thermal management, and reduction in sound transmission. Provision of habitat for special flora &amp; fauna and finally a battery cell which harness solar power using P.V. panels cladded along the west façade of the building. This development turns conventional housing into environmental controller in urban Singapore and also to encourage reds (reduced energy developments).</p>		
Commendation Award S\$500	Ngee Ann Polytechnic	Compressed Natural Gas (CNG) Vehicle	Catherine Chee Siew Yi, Chua Chiew Leong and Winson Djie Kwang Wee
<b>Project Summary</b>	<p>In Singapore, most of the vehicles are running on petrol. The exhaust gases emitted from petrol engines contributed to air pollution. This project is to design and convert a vehicle (car with an electronic fuel injected petrol engine) to run either on petrol as originally designed or in addition is able to run on CNG. When the engine is switched over to run on CNG, the pollutants emitted from the engine will be reduced.</p>		
Encouragement Award S\$200	Ngee Ann Polytechnic	McGas Tank	Ng Wai Ling and Tng Ren He
<b>Project Summary</b>	<p>Singapore is land scarce. The aim of the project is in the line with the Singapore Green Plan 2012 – to help achieve “zero landfill” by minimizing the amount of waste generated and recycling as much as possible. The project involves the fabrication of a biogas tank to biodegrade food and garden wastes. The anaerobic process will produce methane gas, which can be used for cooking. The residues can be used as an aggregate for the construction of pavements and roads.</p>		